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LOGINID:SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	JAN 11	CA/CAPLUS - Expanded patent coverage to include Russia (Federal Institute of Industrial Property)
NEWS EXPRESS			JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 06:28:07 ON 14 JAN 2005

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 06:28:14 ON 14 JAN 2005

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STRUCTURE FILE UPDATES: 12 JAN 2005 HIGHEST RN 812631-13-3

DICTIONARY FILE UPDATES: 12 JAN 2005 HIGHEST RN 812631-13-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

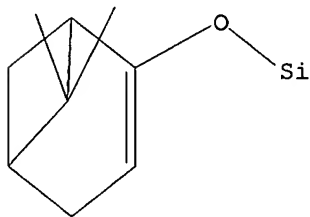
Uploading C:\Examination Auxillary files\10784930\10784930 silylether.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam

SAMPLE SEARCH INITIATED 06:28:45 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 368 TO ITERATE

100.0% PROCESSED 368 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

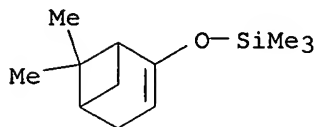
PROJECTED ITERATIONS: 6210 TO 8510

PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> d scan

L2 1 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl- (9CI)  
MF C12 H22 O Si



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> search l1 sss full  
FULL SEARCH INITIATED 06:29:15 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 7774 TO ITERATE

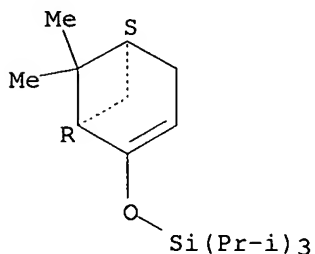
100.0% PROCESSED 7774 ITERATIONS 7 ANSWERS  
SEARCH TIME: 00.00.01

L3 7 SEA SSS FUL L1

=> d scan

L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN Silane, [(1R,5S)-6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl]oxy]tris(1-methylethyl)- (9CI)  
MF C18 H34 O Si

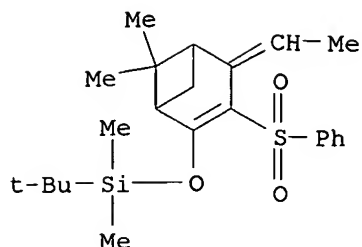
Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

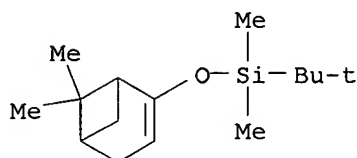
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):7

L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN Silane, (1,1-dimethylethyl)[[4-ethylidene-6,6-dimethyl-3-(phenylsulfonyl)bicyclo[3.1.1]hept-2-en-2-yl]oxy]dimethyl-,  
[1R-(1 $\alpha$ ,4E,5 $\alpha$ )]- (9CI)  
MF C23 H34 O3 S Si



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

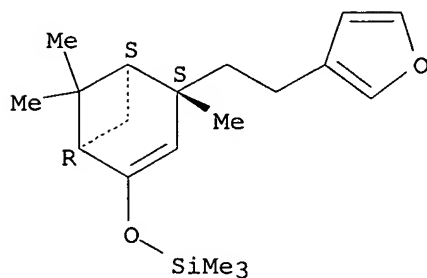
L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy] (1,1-dimethylethyl)dimethyl- (9CI)  
 MF C15 H28 O Si



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Silane, [(1R,4S,5S)-4-[2-(3-furanyl)ethyl]-4,6,6-trimethylbicyclo[3.1.1]hept-2-en-2-yl]oxy]trimethyl-, rel- (9CI)  
 MF C19 H30 O2 Si

Relative stereochemistry.

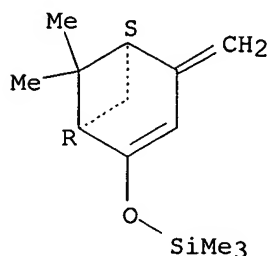


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Silane, [(6,6-dimethyl-4-methylenebicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl-, (1R)- (9CI)

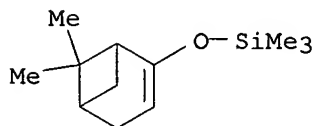
MF C13 H22 O Si

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

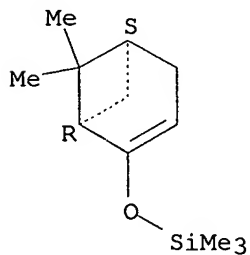
L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl- (9CI)  
MF C12 H22 O Si



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 7 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN Silane, [(1R,5S)-6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl]oxy]trimethyl- (9CI)  
MF C12 H22 O Si

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

161.76

161.97

FILE 'CAPLUS' ENTERED AT 06:29:34 ON 14 JAN 2005  
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FILE COVERS 1907 - 14 Jan 2005 VOL 142 ISS 3  
FILE LAST UPDATED: 12 Jan 2005 (20050112/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 13

L4 12 L3

=> 13/prep

12 L3

3246478 PREP/RL

L5 11 L3/PREP

(L3 (L) PREP/RL)

=> d 15 9-11 ti fbib abs

L5 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Highly efficient synthesis of (+)-nootkatone from (-)- $\beta$ -pinene

AN 1981:15894 CAPLUS

DN 94:15894

TI Highly efficient synthesis of (+)-nootkatone from (-)- $\beta$ -pinene

AU Miyashita, Masaaki; Yanami, Tetsuji; Yoshikoshi, Akira

CS Chem. Res. Inst. Non-Aqueous Solutions, Tohoku Univ., Sendai, Japan

SO Tennen Yuki Kagobutsu Toronkai Koen Yoshishu, 22nd (1979), 190-7

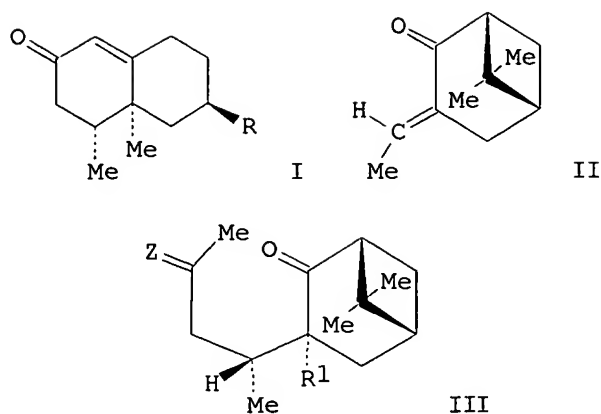
Publisher: Kyushu Daigaku Rigakubu Kagakka, Fukuoka, Japan.

CODEN: 43IQAR

DT Conference

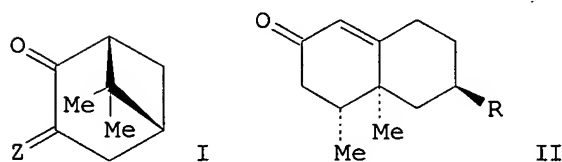
LA Japanese

GI



AB (+)-Nootkatone (I, R = CMe:CH<sub>2</sub>) was stereoselectively prepared in 5 steps from (+)-nopinone via the addition reaction of II with CH<sub>2</sub>:CMeCH<sub>2</sub>SiMe<sub>3</sub>, methylation of III (R<sub>1</sub> = H, Z = CH<sub>2</sub>), ozonolysis of III (R<sub>1</sub> = Me, Z = CH<sub>2</sub>), reaction of III (R<sub>1</sub> = Me, Z = O) with HCl, and dehydrochlorination of I (R = CMe<sub>2</sub>Cl).

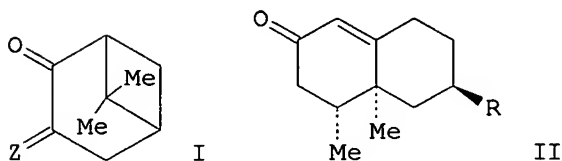
L5 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Highly efficient synthesis of (+)-nootkatone from (-)-β-pinene  
 AN 1980:198554 CAPLUS  
 DN 92:198554  
 TI Highly efficient synthesis of (+)-nootkatone from (-)-β-pinene  
 AU Miyashita, Masaaki; Yanami, Tetsuji; Yoshikoshi, Akira  
 CS Chem. Res. Inst. Non-Aqueous Solutions, Tohoku Univ., Sendai, Japan  
 SO Koen Yoshishu - Tennen Yuki Kagobutsu Toronkai, 22nd (1979), 190-7  
 Publisher: Kyushu Univ., Fac. Sci., Dep. Chem., Fukuoka, Japan.  
 CODEN: 42MAAQ  
 DT Conference  
 LA Japanese  
 GI



AB trans-3-Ethylidenenopinone [I, Z = (E)-MeCH], obtained by condensation of I (Z = H<sub>2</sub>) with MeCHO, was treated with CH<sub>2</sub>:CHCH<sub>2</sub>SiMe<sub>3</sub> in the presence of TiCl<sub>4</sub> to give the methylbutenyl derivative I (Z = α-H, β-CH<sub>2</sub>:CHCH<sub>2</sub>CHMe), which was methylated with MeI in the presence of NaNH<sub>2</sub> to give I (Z = α-Me, β-CH<sub>2</sub>:CHCH<sub>2</sub>CHMe), whose oxidation with Hg(OAc)<sub>2</sub> gave I (Z = α-Me, β-MeCOCH<sub>2</sub>CHMe). Cyclization of the diketone in AcOH-HCl gave the (chloroisopropyl)naphthalenone II (R = CMe<sub>2</sub>Cl), which was dehydrochlorinated to give nootkatone (II, R = CMe:CH<sub>2</sub>) in 72% yield.

L5 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Synthetic study of (+)-nootkatone from (-)-β-pinene  
 AN 1980:129117 CAPLUS  
 DN 92:129117  
 TI Synthetic study of (+)-nootkatone from (-)-β-pinene

AU Yanami, Tetsuji; Miyashita, Masaaki; Yoshikoshi, Akira  
 CS Chem. Res. Inst. Non-Aqueous Solutions, Tohoku Univ., Sendai, 980, Japan  
 SO Journal of Organic Chemistry (1980), 45(4), 607-12  
 CODEN: JOCEAH; ISSN: 0022-3263  
 DT Journal  
 LA English  
 GI



AB Condensing (+)-nopinone with MeCHO followed by acid treatment gave ethylidenenopinone I (Z = MeCH) whose treatment with CH<sub>2</sub>:CMeCH<sub>2</sub>SiMe<sub>3</sub> gave I (Z = α-H,β-CH<sub>2</sub>:CMeCH<sub>2</sub>CHMe). The last was methylated with MeI-NaNH<sub>2</sub> to give I (Z = α-Me,β-CH<sub>2</sub>:CMeCH<sub>2</sub>CHMe) whose ozonolysis gave I [Z = α-Me,β-(R)-MeCOCH<sub>2</sub>CHMe], reaction of which with HCl gave naphthalenone II (R = CMe<sub>2</sub>Cl), whose dehydrochlorination over Al<sub>2</sub>O<sub>3</sub> gave (±)-nootkatone II (R = CMe:CH<sub>2</sub>).

```
=> save temp l4 silyl;ethers/a
SILYL IS NOT A VALID SAVED NAME
Enter the name you wish to use for the saved query,
answer set, or L-number list. The name must:
  1. Begin with a letter,
  2. Have 1-12 characters,
  3. Contain only letters (A-Z) and numbers (0-9),
  4. End with /Q for a query (search profile,
    structure, or screen set), /A for an answer
    set, or /L for an L-number list.
  5. Not already be in use as a saved name,
  6. Not be END, SAV, SAVE, SAVED
  7. Not have the form of an L-number (Lnnn).
ENTER NAME OR (END):silylethrs/a
ANSWER SET L4 HAS BEEN SAVED AS 'SILYLETHRS/A'
```

SAVED ANSWER SET NAME MAY NOT BE USED IN QUERIES 'ETHERS/A'  
 Saved answer sets must be activated before they are used in search profiles. This must be done in the same file in which they were created. Use the FILE command to change files if necessary, then enter "ACTIVATE" followed by the saved name (including /A) at an arrow prompt (=>). Use the L# assigned to the answer set in your search profile.

```
=> file reg
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                19.29      181.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                     ENTRY      SESSION
CA SUBSCRIBER PRICE                -2.19      -2.19
```

FILE 'REGISTRY' ENTERED AT 06:42:12 ON 14 JAN 2005  
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STRUCTURE FILE UPDATES: 12 JAN 2005 HIGHEST RN 812631-13-3  
DICTIONARY FILE UPDATES: 12 JAN 2005 HIGHEST RN 812631-13-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> e Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl-/cn
E1      1      SILANE Y/CN
E2      1      SILANE Z 6040/CN
E3      0 --> SILANE, (6,6-DIMETHYLBICYCLO3.1.1HEPT-2-EN-2-YL)OXYTRIME
          THYL-/CN
E4      1      SILANE, (((((1R,2R)-2,3-DIHYDRO-1-(PHENYLSELENO)-1H-INDEN-2-
          YL)OXY)DIMETHYLSILYL)ETHYNYL)TRIMETHYL-, REL-/CN
E5      1      SILANE, (((((1R,2R)-2,3-DIHYDRO-2-iodo-1H-INDEN-1-YL)OXY)DIM
          ETHYLSILYL)ETHYNYL)TRIMETHYL-, REL-/CN
E6      1      SILANE, (((((1R,2R)-2-iodocyclohexyl)OXY)DIMETHYLSILYL)ETHYN
          YL)TRIMETHYL-, REL-/CN
E7      1      SILANE, (((((1R,2R)-2-iodocyclopentyl)OXY)DIMETHYLSILYL)ETHY
          NYL)TRIMETHYL-, REL-/CN
E8      1      SILANE, (((((2,4,6-TRICHLOROPHENOXY)ACETYL)OXY)STANNYLIDYNE)
          TRIS(METHYLENE))TRIS(DIMETHYLPHENYL-/CN
E9      1      SILANE, (((((2,4,6-TRICHLOROPHENOXY)ACETYL)OXY)STANNYLIDYNE)
          TRIS(METHYLENE))TRIS(METHYLDIPHENYL-/CN
E10     1      SILANE, (((((2,4-DICHLOROPHENOXY)ACETYL)OXY)STANNYLIDYNE)TRI
          S(METHYLENE))TRIS(DIMETHYLPHENYL-/CN
E11     1      SILANE, (((((2,4-DICHLOROPHENOXY)ACETYL)OXY)STANNYLIDYNE)TRI
          S(METHYLENE))TRIS(METHYLDIPHENYL-/CN
E12     1      SILANE, (((((2-CHLOROPHENOXY)ACETYL)OXY)STANNYLIDYNE)TRIS(ME
          THYLENE))TRIS(DIMETHYLPHENYL-/CN
```

```
=> file reg
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                0.86      182.12

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                               ENTRY      SESSION
CA SUBSCRIBER PRICE                0.00      -2.19
```

FILE 'REGISTRY' ENTERED AT 06:43:09 ON 14 JAN 2005  
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STRUCTURE FILE UPDATES: 12 JAN 2005 HIGHEST RN 812631-13-3

DICTIONARY FILE UPDATES: 12 JAN 2005 HIGHEST RN 812631-13-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> file caplu

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.43	182.55
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.19

FILE 'CAPLUS' ENTERED AT 06:43:14 ON 14 JAN 2005  
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FILE COVERS 1907 - 14 Jan 2005 VOL 142 ISS 3  
FILE LAST UPDATED: 12 Jan 2005 (20050112/ED)

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> d his

(FILE 'HOME' ENTERED AT 06:28:07 ON 14 JAN 2005)

FILE 'REGISTRY' ENTERED AT 06:28:14 ON 14 JAN 2005

L1 STRUCTURE UPLOADED  
L2 1 SEARCH L1 SSS SAM  
L3 7 SEARCH L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 06:29:34 ON 14 JAN 2005

L4 12 L3  
L5 11 L3/PREP  
SAVE TEMP L4 SILYL SILYLETHRS/A

FILE 'REGISTRY' ENTERED AT 06:42:12 ON 14 JAN 2005

E SILANE, [(6,6-DIMETHYLBICYCLO[3.1.1]HEPT-2-EN-2-YL)OXY]TRIMET

FILE 'REGISTRY' ENTERED AT 06:43:09 ON 14 JAN 2005

FILE 'CAPLUS' ENTERED AT 06:43:14 ON 14 JAN 2005

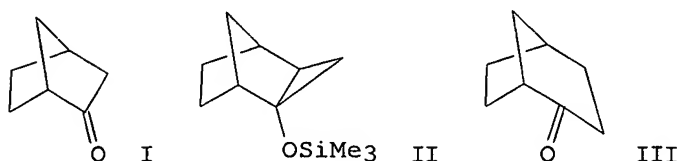
=> d 15 5-8 ti fbib abs

L5 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Extracyclic stereocontrolled alkylation of (1R,5S)-4-ethyl-6,6-dimethyl-3-(phenylsulfonyl)bicyclo[3.1.1]hept-3-en-2-one. A highly stereocontrolled synthesis of (-)-kanshone A  
AN 1993:650190 CAPLUS  
DN 119:250190  
TI Extracyclic stereocontrolled alkylation of (1R,5S)-4-ethyl-6,6-dimethyl-3-(phenylsulfonyl)bicyclo[3.1.1]hept-3-en-2-one. A highly stereocontrolled synthesis of (-)-kanshone A  
AU Kato, Michiharu; Watanabe, Masataka; Awen, Bahlul Z.  
CS Inst. Chem. React. Sci., tohoku Univ., Sendai, 980, Japan  
SO Journal of Organic Chemistry (1993), 58(19), 5145-52  
CODEN: JOCEAH; ISSN: 0022-3263  
DT Journal  
LA English  
OS CASREACT 119:250190  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

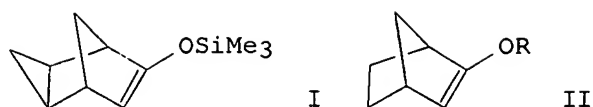
AB (1R,5S)-4-Ethyl-6,6-dimethyl-3-(phenylsulfonyl)bicyclo[3.1.1]hept-3-en-2-one (I; R1 = SO<sub>2</sub>Ph, R2 = Et) was prepared from (+)-nopinone in six steps and 70% overall yield via (1R,5R)-6,6-dimethyl-3-(phenylthio)bicyclo[3.1.1]hept-3-en-2-one (I; R1 = SPh, R2 = H). Alkylation reactions of I (R1 = SO<sub>2</sub>Ph, R2 = Et) with alkyl bromides (allyl, 3-methyl-2-butenyl, propargyl, benzyl) in the presence of K<sub>2</sub>CO<sub>3</sub> in MeCN proceeded in regio- and extracyclic stereocontrolled fashion to give, as the major product, mixts. of  $\gamma$ -alkylated products II (R1 = SO<sub>2</sub>Ph, R3 = CH<sub>2</sub>CH:CH<sub>2</sub>, CH<sub>2</sub>CH:CMe<sub>3</sub>, CH<sub>2</sub>C.tplbond.CH, PhCH<sub>2</sub>, CH<sub>2</sub>CO<sub>2</sub>Me) possessing a new chiral center of R configuration adjacent to a ring and III (R3 = CH<sub>2</sub>CH:CH<sub>2</sub>, CH<sub>2</sub>CH:CMe<sub>2</sub>, CH<sub>2</sub>C.tplbond.CH, PhCH<sub>2</sub>) possessing that of S configuration, whose ratios are II-III 10:1, 7:1, 13:1 and 18:1, resp., along with  $\alpha$ -alkylated products IV (R4 = CH<sub>2</sub>CH:CH<sub>2</sub>, CH<sub>2</sub>CH:CMe<sub>2</sub>, CH<sub>2</sub>C.tplbond.CH, PhCH<sub>2</sub>) and O-alkylated products V (R5 = CH<sub>2</sub>CH:CH<sub>2</sub>, CH<sub>2</sub>CH:CMe<sub>2</sub>) on reactions with allyl and dimethylallyl bromides. In addition, reaction of I (R1 = SO<sub>2</sub>Ph, R2 = Et) with Me bromoacetate provided II (R1 = SO<sub>2</sub>Ph, R3 = CH<sub>2</sub>CO<sub>2</sub>Me) as the sole product. In the presence of a combined reagent, K<sub>2</sub>CO<sub>3</sub>-Cs<sub>2</sub>CO<sub>3</sub> (9:1), in MeCN, considerable high diastereoselection was detected, i.e., reactions of I (R1 = SO<sub>2</sub>Ph, R2 = Et) with allyl and dimethylallyl bromides produced mixts. of II and III 20:1 and 12:1 ratios, resp. Reaction products were separated by chromatog. on silica gel, while the major diastereomers II (R1 = SO<sub>2</sub>Ph, R3 = CH<sub>2</sub>CH:CH<sub>2</sub>, CH<sub>2</sub>C.tplbond.CH, PhCH<sub>2</sub>, CH<sub>2</sub>CO<sub>2</sub>Me) highly crystalline themselves, were readily obtained as pure crystals by recrystn. Mechanism of diastereoselection and the scope and limitations of the extracyclic stereocontrolled alkylation are briefly discussed. In the application of II as the synthetic intermediate for the asym. synthesis, starting with (1R,5S)-6,6-dimethyl-4-[(1R)-1-methyl-3-butenyl]-3-(phenylsulfonyl)bicyclo[3.1.1]hept-3-en-2-one (II; R1 = SO<sub>2</sub>Ph, R3 = CH<sub>2</sub>CH:CH<sub>2</sub>), (-)-kanshone A (VI), a nardosinane sesquiterpene, was synthesized in a highly stereoselective fashion in 12 steps via (1R,4R,5R)-4,6,6-trimethyl-4-[(1R)-1-methyl-3-butenyl]bicyclo[3.1.1]heptan-2-one (II; R1 = H, R3 = CH<sub>2</sub>CH:CH<sub>2</sub>) and its cyclobutane-ring opening product, (4S,4aR,5R)-1-acetoxy-4-isopropenyl-4a,5-dimethyl-3,4,4a,5,6,7-hexahydronaphthalene.

L5 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Carbon-13 magnetic resonance studies. 124. Preparative ring expansions of bicyclic ketones by homoketonization of cyclopropoxide analogs  
 AN 1987:101776 CAPLUS  
 DN 106:101776  
 TI Carbon-13 magnetic resonance studies. 124. Preparative ring expansions of bicyclic ketones by homoketonization of cyclopropoxide analogs  
 AU Patel, Vijay; Ragauskas, Arthur J.; Stothers, J. B.  
 CS Dep. Chem., Univ. West. Ontario, London, ON, N6A 5B7, Can.  
 SO Canadian Journal of Chemistry (1986), 64(7), 1440-9  
 CODEN: CJCHAG; ISSN: 0008-4042  
 DT Journal  
 LA English  
 OS CASREACT 106:101776  
 GI



AB Homoketonization of some readily prepared cyclopropoxides provides a new synthetic method for ring expansion of the [2.2.1] and [2.2.2] ring systems. Cyclopropanation of the trimethylsilyl enol ethers derived from a variety of polycyclic ketones affords the required cyclopropyl silyl ethers, which may be ketonized directly or hydrolyzed to the corresponding cyclopropanols before ketonization. The results for fourteen examples serve to define the scope of the ring expansion process, and the silyl enol ethers, cyclopropyl silyl ethers, and most of the corresponding cyclopropanols have been characterized by <sup>13</sup>C NMR. The stereochem. of the ketonization leading to ring expansion was established by deuterium-labeling expts. Thus, bicyclic ketone I was converted to the trimethylsilyl enol ether, which underwent cyclopropanation with CH<sub>2</sub>I<sub>2</sub> in presence of a Zn-Ag couple and the resulting cyclopropyl derivative II was treated with NaOH/MeOH to give ring expansion product III.

L5 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Carbon-13 magnetic resonance studies. 120. The Simmons-Smith reaction with some silyl enol ethers. Unusual ring expansions of some norcamphors  
 AN 1986:69020 CAPLUS  
 DN 104:69020  
 TI Carbon-13 magnetic resonance studies. 120. The Simmons-Smith reaction with some silyl enol ethers. Unusual ring expansions of some norcamphors  
 AU Ragauskas, Arthur J.; Stothers, J. B.  
 CS Dep. Chem., Univ. West. Ontario, London, ON, N6A 5B7, Can.  
 SO Canadian Journal of Chemistry (1985), 63(11), 2969-74  
 CODEN: CJCHAG; ISSN: 0008-4042  
 DT Journal  
 LA English  
 OS CASREACT 104:69020  
 GI



AB Simmons-Smith cyclopropanation of silyl enol ethers, e.g. I, II (R = Me<sub>3</sub>Si, Me<sub>3</sub>CSiMe<sub>2</sub>), of polycyclic ketones was studied. Product compns. depended on concns. of reactants, and tert-butyldimethylsilyl derivs. gave ring-expanded allylic ethers more efficiently than did the corresponding trimethylsilyl derivs.

L5 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Electronic absorption and circular dichroism spectra of the perturbed coplanar cis-diene chromophore in deuterium- and methyl-substituted 7,7-dimethylbicyclo[4.1.1]octa-2,4-dienes

AN 1983:521719 CAPLUS

DN 99:121719

TI Electronic absorption and circular dichroism spectra of the perturbed coplanar cis-diene chromophore in deuterium- and methyl-substituted 7,7-dimethylbicyclo[4.1.1]octa-2,4-dienes

AU Browne, Alan R.; Kearney, Francis R.; Mason, Stephen F.; Paquette, Leo A.; Drake, Alex F.

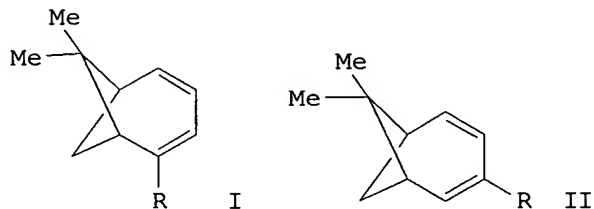
CS Dep. Chem., Ohio State Univ., Columbus, OH, 43210, USA

SO Journal of the American Chemical Society (1983), 105(19), 6123-9  
CODEN: JACSAT; ISSN: 0002-7863

DT Journal

LA English

GI



AB Optically active title compds. I (R = D) and II (R = D) were prepared with known absolute configuration from (+)-nopinone (III); also, I (R = Me) and II (R = Me) were prepared from (+)- $\alpha$ -pinene and III, resp. In I (R = D) and II (R = D) the chirality is due solely to isotopic substitution. The contributions of the C-D and C-Me groups to the observed absorption and CD spectra are analyzed. In particular, attention is directed to the planar cis-1,3-diene unit in I and II, the resultant zero dihedral angle between the C2-C3 and C4-C5 bonds at equilibrium, and the consequences of this unique fixed geometry.

=> d 15 1-4 ti fbib abs

L5 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Electrooxidative Coupling of Furans and Silyl Enol Ethers: Application to the Synthesis of Annulated Furans

AN 2004:344244 CAPLUS

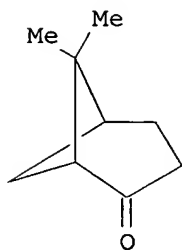
DN 141:88977

TI Electrooxidative Coupling of Furans and Silyl Enol Ethers: Application to the Synthesis of Annulated Furans

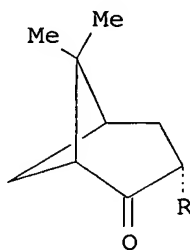
AU Sperry, Jeffrey B.; Whitehead, Christopher R.; Ghiviriga, Ion; Walczak, Ryan M.; Wright, Dennis L.  
 CS Department of Chemistry, Dartmouth College, Hanover, NH, 03755, USA  
 SO Journal of Organic Chemistry (2004), 69(11), 3726-3734  
 CODEN: JOCEAH; ISSN: 0022-3263  
 PB American Chemical Society  
 DT Journal  
 LA English  
 OS CASREACT 141:88977  
 AB The preparation of annulated furan systems as key synthetic intermediates through the application of a two-step annulation involving an electrochem. ring closure between a furan and a silyl enol ether has been studied. The reaction was shown to be quite general for the formation of six-membered rings in good yields and was tolerant of a variety of different functional groups. The ring closure was highly stereoselective, leading to the formation of cis-fused systems. Cyclic voltammetry and probe mols. were used to gain mechanistic insight into the reaction. These studies suggested that the key ring closure involved an initial oxidation of the silyl enol ether to a radical cation followed by a furan-terminated cyclization.

RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone  
 AN 2002:675080 CAPLUS  
 DN 138:4699  
 TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone  
 AU Campos, Kevin R.; Lee, Sandra; Journet, Michel; Kowal, Jason J.; Cai, Dongwei; Larsen, Robert D.; Reider, Paul J.  
 CS Department of Process Research, Merck Research Laboratories, Rahway, NJ, 07065, USA  
 SO Tetrahedron Letters (2002), 43(39), 6957-6959  
 CODEN: TELEAY; ISSN: 0040-4039  
 PB Elsevier Science Ltd.  
 DT Journal  
 LA English  
 OS CASREACT 138:4699  
 GI



I



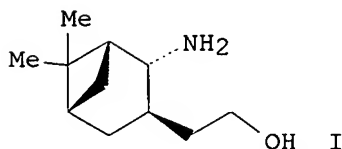
II

AB A general method for the monoalkylation of (+)-nopinone (I) was developed for a variety of carbon and heteroatom electrophiles to afford the kinetically controlled product II with high diastereoselectivity (98% d.e.) and excellent yield (75-90%).

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Process for producing bicyclic amino alcohol from (+)-nopinone  
AN 2001:31442 CAPLUS  
DN 134:101033  
TI Process for producing bicyclic amino alcohol from (+)-nopinone  
IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Mitsumori, Susumu  
PA Shionogi & Co., Ltd., Japan  
SO PCT Int. Appl., 50 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001002334	A1	20010111	WO 2000-JP4171	20000626
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				JP 1999-188674	A 19990702
	EP 1193243	A1	20020403	EP 2000-939160	20000626
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
				JP 1999-188674	A 19990702
				WO 2000-JP4171	W 20000626
	US 6723857	B1	20040420	US 2002-19670	20020102
				JP 1999-188674	A 19990702
				WO 2000-JP4171	W 20000626
	US 2004171882	A1	20040902	US 2004-784930	20040225
				JP 1999-188674	A 19990702
				WO 2000-JP4171	W 20000626
				US 2002-19670	A3 20020102
OS	CASREACT 134:101033; MARPAT 134:101033				
GI					

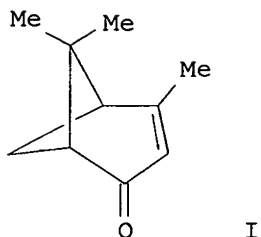


AB The bicyclic amino alc. I is prepared by reaction of (+)-nopinone with XCH2CO2R1 (X = halo; R1 = alkyl) in the presence of an additive and a base, followed by conversion of the product into an oxime, and reduction of the oxime. I is then converted in several steps to a known PGD2 antagonist.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

TI Oxidative Coupling of the Enolate Anion of (1R)-(+)-Verbenone with Fe(III) and Cu(II) Salts. Two Modes of Conjoining This Bicyclic Ketone across a Benzene Ring  
 AN 1995:865233 CAPLUS  
 DN 123:340464  
 TI Oxidative Coupling of the Enolate Anion of (1R)-(+)-Verbenone with Fe(III) and Cu(II) Salts. Two Modes of Conjoining This Bicyclic Ketone across a Benzene Ring  
 AU Paquette, Leo A.; Bzowej, Eugene I.; Branan, Bruce M.; Stanton, Kenetha J.  
 CS Evans Chemical Laboratories, Ohio State University, Columbus, OH, 43210, USA  
 SO Journal of Organic Chemistry (1995), 60(22), 7277-83  
 CODEN: JOCEAH; ISSN: 0022-3263  
 PB American Chemical Society  
 DT Journal  
 LA English  
 OS CASREACT 123:340464  
 GI



AB The regioselectivity of the oxidative coupling of the enolate anion of (1R)-(+)-verbenone (97% ee) (I) was examined with CuCl<sub>2</sub> and FeCl<sub>3</sub> as catalysts. With Cu(II), selective formation of the  $\gamma,\gamma$ -product is observed. An increase in temperature above -40 °C results in further oxidation of the intra-ring ethano bridge to a trans double bond, provided that excess LDA has been added. In the presence of Fe(III), the coupling is partially diverted to the  $\alpha,\gamma$ -product, which has proven amenable to direct conversion to that C2-sym. "dimer" having the carbonyl groups in a para relationship. The second C2 "dimer" featuring meta orientation of the ketone functionalities has been conveniently prepared from the trienedione or its derived diol by thermal or photochem. trans  $\rightarrow$  cis equilibration, thermal 6 $\pi$  electrocyclozation with concurrent aromatization, and PCC oxidation. Some potential applications of this conformationally rigid benzenoid system to enantioselective synthesis are outlined.

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      56388 HOLD
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                                ENTRY      SESSION
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NEWS 6	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS 7	FEB 27	New STN AnaVist pricing effective March 1, 2006
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NEWS 9	MAR 22	EMBASE is now updated on a daily basis
NEWS 10	APR 03	New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 11	APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
NEWS 12	APR 04	STN AnaVist \$500 visualization usage credit offered
NEWS 13	APR 12	LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS 14	APR 12	Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS 15	APR 12	Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected
NEWS 16	MAY 10	CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS 17	MAY 11	KOREAPAT updates resume
NEWS 18	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 19	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAPLUS and USPATFULL/USPAT2
NEWS 20	MAY 30	The F-Term thesaurus is now available in CA/CAPLUS
NEWS 21	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS EXPRESS		FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT <a href="http://download.cas.org/express/v8.0-Discover/">http://download.cas.org/express/v8.0-Discover/</a>
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\*  
\*\*\*\*\*

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<http://www.cas.org/ONLINE/UG/regprops.html>

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FULL ESTIMATED COST	0.44	0.65

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STN INTERNATIONAL SESSION SUSPENDED AT 06:59:59 ON 05 JUN 2006

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PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
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FILE 'REGISTRY' ENTERED AT 07:11:57 ON 05 JUN 2006  
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COST IN U.S. DOLLARS

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TOTAL

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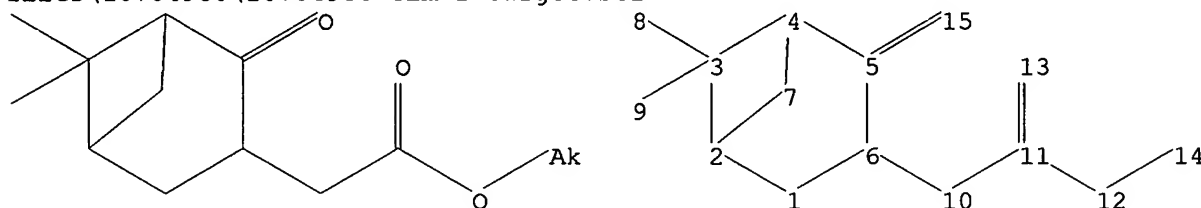
FULL ESTIMATED COST

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0.65

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chain nodes :

8 9 10 11 12 13 14 15

ring nodes :

1 2 3 4 5 6 7

chain bonds :

3-8 3-9 5-15 6-10 10-11 11-12 11-13 12-14

ring bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6 5-15 11-12 11-13 12-14

exact bonds :

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6:>= minimum 1 10:>= minimum 2

Match level :

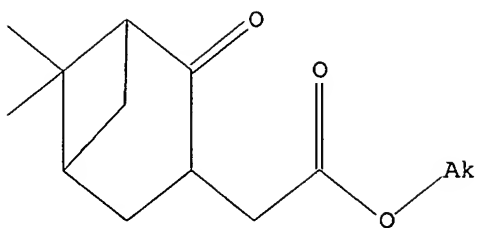
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11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L1 STRUCTURE UPLOADED

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L1 STR



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=> search l1 sss sam

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100.0% PROCESSED 100 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH. \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1401 TO 2599

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> search l1 sss full

FULL SEARCH INITIATED 07:12:53 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2159 TO ITERATE

100.0% PROCESSED 2159 ITERATIONS

5 ANSWERS

SEARCH TIME: 00.00.01

L3 5 SEA SSS FUL L1

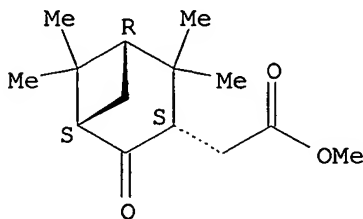
=> d scan

L3 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Bicyclo[3.1.1]heptane-3-acetic acid, 2,2,6,6-tetramethyl-4-oxo-, methyl ester, [1R-(1 $\alpha$ ,3 $\beta$ ,5 $\alpha$ )]- (9CI)

MF C14 H22 O3

Absolute stereochemistry.

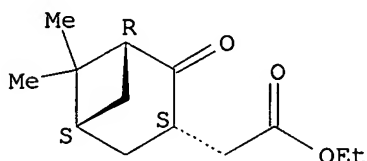


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L3 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
IN Bicyclo[3.1.1]heptane-3-acetic acid, 6,6-dimethyl-2-oxo-, ethyl ester,  
(1R,3S,5S)- (9CI)  
MF C13 H20 O3

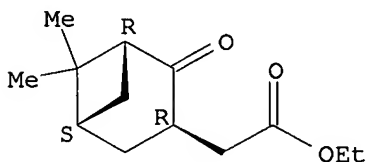
Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
IN Bicyclo[3.1.1]heptane-3-acetic acid, 6,6-dimethyl-2-oxo-, ethyl ester,  
(1R,3R,5S)- (9CI)  
MF C13 H20 O3

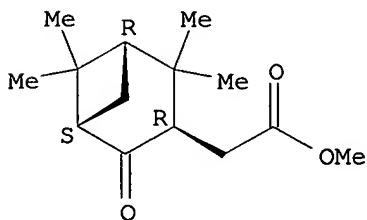
Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

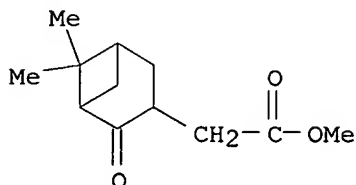
L3 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
IN Bicyclo[3.1.1]heptane-3-acetic acid, 2,2,6,6-tetramethyl-4-oxo-, methyl  
ester, [1R-(1 $\alpha$ ,3 $\alpha$ ,5 $\alpha$ )]- (9CI)  
MF C14 H22 O3

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 5 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN  
IN Bicyclo[3.1.1]heptane-3-acetic acid, 6,6-dimethyl-2-oxo-, methyl ester  
(9CI)  
MF C12 H18 O3



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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167.59

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FILE COVERS 1907 - 5 Jun 2006 VOL 144 ISS 24

FILE LAST UPDATED: 4 Jun 2006 (20060604/ED)

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=> l3/prep

6 L3

3476900 PREP/RL

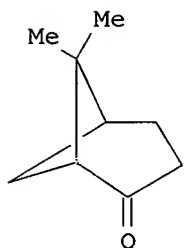
L4

6 L3/PREP

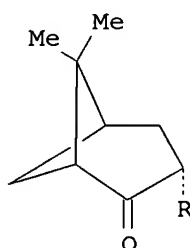
(L3 (L) PREP/RL)

=> d l4 1-6 ti fbib abs

L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone  
 AN 2002:675080 CAPLUS  
 DN 138:4699  
 TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone  
 AU Campos, Kevin R.; Lee, Sandra; Journet, Michel; Kowal, Jason J.; Cai, Dongwei; Larsen, Robert D.; Reider, Paul J.  
 CS Department of Process Research, Merck Research Laboratories, Rahway, NJ, 07065, USA  
 SO Tetrahedron Letters (2002), 43(39), 6957-6959  
 CODEN: TELEAY; ISSN: 0040-4039  
 PB Elsevier Science Ltd.  
 DT Journal  
 LA English  
 OS CASREACT 138:4699  
 GI



I



II

AB A general method for the monoalkylation of (+)-nopinone (I) was developed for a variety of carbon and heteroatom electrophiles to afford the kinetically controlled product II with high diastereoselectivity (98% d.e.) and excellent yield (75-90%).

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Process for producing bicyclic amino alcohol from (+)-nopinone  
 AN 2001:31442 CAPLUS  
 DN 134:101033  
 TI Process for producing bicyclic amino alcohol from (+)-nopinone  
 IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Mitsumori, Susumu  
 PA Shionogi & Co., Ltd., Japan  
 SO PCT Int. Appl., 50 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese

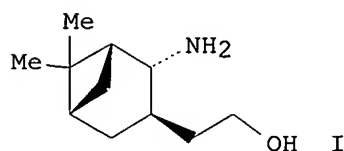
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001002334	A1	20010111	WO 2000-JP4171	20000626
	W:				AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
	RW:				GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1193243	A1	20020403	JP 1999-188674	A	19990702
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			EP 2000-939160		20000626
			JP 1999-188674	A	19990702
			WO 2000-JP4171	W	20000626
JP 3730170	B2	20051221	JP 2001-507777		20000626
			JP 1999-188674	A	19990702
			WO 2000-JP4171	W	20000626
US 6723857	B1	20040420	US 2002-19670		20020102
			JP 1999-188674	A	19990702
			WO 2000-JP4171	W	20000626
US 2004171882	A1	20040902	US 2004-784930		20040225
			JP 1999-188674	A	19990702
			WO 2000-JP4171	W	20000626
			US 2002-19670	A3	20020102

OS CASREACT 134:101033; MARPAT 134:101033  
GI



AB The bicyclic amino alc. I is prepared by reaction of (+)-nopinone with XCH<sub>2</sub>CO<sub>2</sub>R<sub>1</sub> (X = halo; R<sub>1</sub> = alkyl) in the presence of an additive and a base, followed by conversion of the product into an oxime, and reduction of the oxime. I is then converted in several steps to a known PGD2 antagonist.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Process for producing benzothiophenecarboxylic acid amide derivatives  
AN 1999:640851 CAPLUS  
DN 131:243177  
TI Process for producing benzothiophenecarboxylic acid amide derivatives  
IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Okada, Tetsuo; Kakinuma, Makoto  
PA Shionogi & Co., Ltd., Japan  
SO PCT Int. Appl., 36 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9950261	A1	19991007	WO 1999-JP1617	19990330
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
			JP 1998-87311	A 19980331



CA 2326418	AA	19991007	CA 1999-2326418	19990330
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
AU 9929602	A1	19991018	AU 1999-29602	19990330
AU 747860	B2	20020523		
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
BR 9909286	A	20001205	BR 1999-9286	19990330
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
EP 1069123	A1	20010117	EP 1999-910765	19990330
EP 1069123	B1	20041110		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
TR 200002842	T2	20010122	TR 2000-200002842	19990330
			JP 1998-87311	A 19980331
TW 458975	B	20011011	TW 1999-88105051	19990330
			JP 1998-87311	A 19980331
TR 200101802	T2	20011022	TR 2001-200101802	19990330
			JP 1998-87311	A 19980331
RU 2185380	C1	20020720	RU 2000-127103	19990330
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
JP 3340428	B2	20021105	JP 2000-541165	19990330
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
AT 282035	E	20041115	AT 1999-910765	19990330
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
ES 2233027	T3	20050601	ES 1999-910765	19990330
			JP 1998-87311	A 19980331
ZA 2000004721	A	20010308	ZA 2000-4721	20000907
			JP 1998-87311	A 19980331
NO 2000004918	A	20001128	NO 2000-4918	20000929
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
US 6399788	B1	20020604	US 2000-647353	20000929
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
JP 2002193898	A2	20020710	JP 2001-353060	20011119
JP 3629460	B2	20050316		
			JP 1998-87311	A 19980331
			JP 2000-541165	A3 19990330
US 2002115871	A1	20020822	US 2002-133353	20020429
US 6462241	B2	20021008		
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
US 6455741	B2	20020924	US 2000-647353	A3 20000929
US 2002156297	A1	20021024	US 2002-133319	20020429
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
			US 2000-647353	A3 20000929
US 6465662	B2	20021015	US 2002-133313	20020429
US 2002161242	A1	20021031		
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
			US 2000-647353	A3 20000929

OS CASREACT 131:243177; MARPAT 131:243177  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Disclosed are a process for producing 7-[(1R,2R,3S,5S)-2-(hydroxybenzo[b]thiophen-3-ylcarbonylamino)-10-norpinan-3-yl]-5-heptenoic acid compds. having PGD2 antagonism represented by formula (I; R = H, HO-protecting group; X = H, alkyl; the double bond is either in E or Z configuration), pharmaceutically acceptable salts thereof or hydrates of the same characterized by reacting an amino alc., namely [(1R,2R,3R,5S)-2-amino-10-norpinan-3-yl]ethanol, of formula (II) or its salt with a hydroxybenzo[b]thiophene-3-carboxylic acid compound of formula (III) or its reactive derivative, oxidizing the obtained product in the presence of 2,2,6,6,-tetramethylpiperidine-1-oxyls, and then reacting with an ylide under Wittig reaction conditions optionally followed by deblocking. The amino alc. (II) is prepared by reduction of oximes (IV; R2 = alkyl; R3 = H, alkyl). I are useful for the treatment of diseases related to failure of mast cell function caused by over-production of PGD and are used as remedies for systemic mast cell disease or mast cell activation disorder, allergic rhinitis, allergic conjunctivitis, nettle rash (urticaria), ischemic reperfusion disorder, and atopic dermatitis and as bronchodilators, antiasthmatics, and antiinflammatory agents (no data). II.PhCO<sub>2</sub>H (preparation given) was suspended in water, treated with 1 N aqueous

HCl, and extracted with EtOAc to remove precipitated benzoic acid. The organic layer was washed with water and the combined aqueous layer was treated with 4 N aqueous

NaOH under ice-cooling and then dropwise with a solution of 5-(benzenesulfonyloxy)benzo[b]thiophene-3-carbonyl chloride in THF over 15 min and stirred at the same temperature for 15 h to give 95.6% intermediate (V; R1 = CH<sub>2</sub>OH). The latter alc. was dissolved in EtOAc, treated with TEMPO and KBr and then dropwise with a solution of 0.41 N aqueous NaOCl (adjusted to

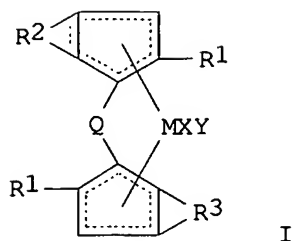
pH 9.5 with NaHCO<sub>3</sub>) at -1° to 6° over 3 min, and stirred at the same temperature for 10 min to give 100% aldehyde (V; R1 = CHO) which underwent Wittig reaction with 4-carboxybutyltriphenylphosphonium bromide in the presence of Me<sub>3</sub>COK in THF under ice-cooling for 2 h followed by treatment with a mixture of 4 N aqueous NaOH and DMSO at 55° for 2 h to give II 76.0% (OR = 5-OH, X = H).

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Catalyst components for polymerization of  $\alpha$ -olefins and manufacture of  $\alpha$ -olefin polymers  
AN 1995:220794 CAPLUS  
DN 122:188427  
TI Catalyst components for polymerization of  $\alpha$ -olefins and manufacture of  $\alpha$ -olefin polymers  
IN Sugano, Toshihiko; Uchino, Hidefumi; Takahama, Tomohiko  
PA Mitsubishi Petrochemical Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 06239917	A2	19940830	JP 1993-30932	19930219
				JP 1993-30932	19930219
OS	MARPAT 122:188427				

GI



AB  $\alpha$ -Olefins are polymerized with catalysts comprising transition metal compds. I [R1 = H, C1-6 hydrocarbyl, Si-containing C1-12 hydrocarbyl; R2-3 = C3-30 hydrocarbylene; 1 of R2-3 have condensed ring; M = Group IVB-VIB transition metal; Q = C1-20 hydrocarbylene, (C1-20 hydrocarbyl-containing) silylene, (C1-20 hydrocarbyl-containing) germylene; X, Y = H, halo, (O-containing)

C1-20 hydrocarbyl] and another component chosen from Al oxy compds., Lewis acids, and ionic compds. reactive with I. Thus, propylene was prepolymd. with methylalumoxane and dimethylsilylenebis[4-(5,9,9-trimethyltricyclo[6.1.1.0]deca-4,6-dien-3-yl)]zirconium dichloride (II; preparation given) at 20° and 1 kg/cm<sup>2</sup>G for 15 min and polymerized at 40° and 7 kg/cm<sup>2</sup>G for 2 h to give a polymer with catalyst activity 10.1 + 10<sup>4</sup> g-polymer/g-II, number average mol. weight 24.5 + 10<sup>4</sup>, polydispersity 2.21, and m.p. 154.5°.

L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Thromboxane A2 receptor antagonists. III. Synthesis and pharmacological activity of 6,6-dimethylbicyclo[3.1.1]heptane derivatives with a substituted sulfonylamino group at C-2

AN 1990:179482 CAPLUS

DN 112:179482

TI Thromboxane A2 receptor antagonists. III. Synthesis and pharmacological activity of 6,6-dimethylbicyclo[3.1.1]heptane derivatives with a substituted sulfonylamino group at C-2

AU Seno, Kaoru; Hagishita, Sanji

CS Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, 553, Japan

SO Chemical & Pharmaceutical Bulletin (1989), 37(6), 1524-33

CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

OS CASREACT 112:179482

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Four stereoisomers of the title compds., I (1R,2S,3S,5S; 1R,2R,3S,5S; 1R,2S,3R,5S) and II (2R,3R), were synthesized from (-)-myrtenol and (+)-nopinone. The (1R,2R,3S,5S)-isomer of I had the most potent inhibitory activity against platelet aggregation and did not show partial agonist activity (shape change of platelets). The antipode I (1S,2S,3R,5R) and derivs. III (R = Me, PhCH<sub>2</sub>, biphenyl, 2-naphthyl, p-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>, p-MeOC<sub>6</sub>H<sub>4</sub>, PhCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>, PhCH<sub>2</sub>CH<sub>2</sub>, p-ClC<sub>6</sub>H<sub>4</sub>, o-ClC<sub>6</sub>H<sub>4</sub>, m-ClC<sub>6</sub>H<sub>4</sub>, p-EtC<sub>6</sub>H<sub>4</sub>, p-MeC<sub>6</sub>H<sub>4</sub>, p-FC<sub>6</sub>H<sub>4</sub>, p-HOC<sub>6</sub>H<sub>4</sub>) were also prepared. The one-carbon

homologated compound IV was also prepared The inhibitory activities of these compds. against platelet aggregation were measured.

L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Stereoselective formation from a (1S,5S)-(-)-verbenone-derived  
cyclopentadiene of dimeric and mixed titanium and zirconium dichloride  
complexes  
AN 1989:231800 CAPLUS  
DN 110:231800  
TI Stereoselective formation from a (1S,5S)-(-)-verbenone-derived  
cyclopentadiene of dimeric and mixed titanium and zirconium dichloride  
complexes  
AU Moriarty, Kevin J.; Rogers, Robin D.; Paquette, Leo A.  
CS Evans Chem. Lab., Ohio State Univ., Columbus, OH, 43210, USA  
SO Organometallics (1989), 8(6), 1512-17  
CODEN: ORGND7; ISSN: 0276-7333  
DT Journal  
LA English  
OS CASREACT 110:231800  
GI For diagram(s), see printed CA Issue.  
AB The optically active cyclopentadienide anion I undergoes reaction with  
TiCl<sub>3</sub>·3THF, CpTiCl<sub>3</sub>, ZrCl<sub>4</sub>, and Cp\*ZrCl<sub>3</sub> (Cp = η<sup>5</sup>-  
cyclopentadienyl, Cp\* = η<sup>5</sup>-pentamethylcyclopentadienyl) to form a  
single complex in each instance. That coordination occurs above plane in  
I, its less sterically congested surface, was established by 1H and 13C  
NMR correlations and by x-ray crystallog. anal. of Ti complex II. When  
CpZrCl<sub>3</sub> is the coreactant, a 1:1 mixture of both possible stereoisomeric  
complexes results. Thus, I is a more facially discriminating species than  
is III, a finding that provides some mechanistic insight into the  
electronic character and mode of reaction of cyclopentadienide anions  
grafted to plane-nonsym. bicyclic frameworks.

=>

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	30.35	197.94
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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NEWS 3 JAN 17 Pre-1988 INPI data added to MARPAT  
 NEWS 4 FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist  
 visualization results  
 NEWS 5 FEB 22 The IPC thesaurus added to additional patent databases on STN  
 NEWS 6 FEB 22 Updates in EPFULL; IPC 8 enhancements added  
 NEWS 7 FEB 27 New STN AnaVist pricing effective March 1, 2006  
 NEWS 8 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes  
 NEWS 9 MAR 22 EMBASE is now updated on a daily basis  
 NEWS 10 APR 03 New IPC 8 fields and IPC thesaurus added to PATDPAFULL  
 NEWS 11 APR 03 Bibliographic data updates resume; new IPC 8 fields and IPC  
 thesaurus added in PCTFULL  
 NEWS 12 APR 04 STN AnaVist \$500 visualization usage credit offered  
 NEWS 13 APR 12 LINSPEC, learning database for INSPEC, reloaded and enhanced  
 NEWS 14 APR 12 Improved structure highlighting in FQHIT and QHIT display  
 in MARPAT  
 NEWS 15 APR 12 Derwent World Patents Index to be reloaded and enhanced during  
 second quarter; strategies may be affected  
 NEWS 16 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records  
 NEWS 17 MAY 11 KOREAPAT updates resume  
 NEWS 18 MAY 19 Derwent World Patents Index to be reloaded and enhanced  
 NEWS 19 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and  
 USPTAFULL/USPAT2  
 NEWS 20 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS  
 NEWS 21 JUN 02 The first reclassification of IPC codes now complete in  
 INPADOC  
  
 NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,  
 CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
 AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.  
 V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT  
<http://download.cas.org/express/v8.0-Discover/>  
  
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 NEWS LOGIN Welcome Banner and News Items  
 NEWS IPC8 For general information regarding STN implementation of IPC 8  
 NEWS X25 X.25 communication option no longer available after June 2006

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\* \* \* \* \* STN Columbus \* \* \* \* \*

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<-----User Break----->

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Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*

SESSION RESUMED IN FILE 'REGISTRY' AT 07:23:21 ON 15 JUN 2006  
 FILE 'REGISTRY' ENTERED AT 07:23:21 ON 15 JUN 2006  
 COPYRIGHT (C) 2006 American Chemical Society (ACS)  
 COST IN U.S. DOLLARS

	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	1.32	1.53

=> e Bicyclo[3.1.1]heptane-3-acetic acid, 6,6-dimethyl-2-oxo-/cn

E1	1	BICYCLO (4.4.0) DECANE-3,4,8,9-TETRACARBOXYLIC ACID DIANHYDRIDE-CYCLOHEXANE-1,2,4,5-TETRACARBOXYLIC ACID DIANHYDRIDE-4,4'-DIAMINODIPHENYL METHANE POLYMER/CN
E2	1	BICYCLO (4.4.0) DECANE-3,4,8,9-TETRACARBOXYLIC ACID DIANHYDRIDE-M-PHENYLENEDIAMINE POLYMER/CN
E3	0 -->	BICYCLO3.1.1HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-/CN
E4	1	BICYCLO(0,1,3)HEXANE, 2,6,6-TRIMETHYL-/CN
E5	1	BICYCLO(0.1.3)HEXANE, 3,3-DIMETHYL-/CN
E6	1	BICYCLO(1.1.0)BUT-1(2)-ENE/CN
E7	1	BICYCLO(1.1.0)BUT-1(3)-EN-2-IUM-2-YLIDENE, 4-OXO-/CN
E8	1	BICYCLO(1.1.0)BUT-1(3)-EN-2-YL, 4-OXO-, ION(1-)/CN
E9	1	BICYCLO(1.1.0)BUT-1(3)-EN-2-YLIDENE/CN
E10	1	BICYCLO(1.1.0)BUT-1(3)-EN-2-YLIDENE, 4-OXO-/CN
E11	1	BICYCLO(1.1.0)BUT-1(3)-ENE/CN
E12	1	BICYCLO(1.1.0)BUT-1(3)-ENE, 2,2,4,4-TETRAFLUORO-/CN

=> e Bicyclo(3.1.1)heptane-3-acetic acid, 6,6-dimethyl-2-oxo-/cn

E1	1	BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-METHYLENE-A-( (4-METHYLPHENYL) SULFONYL)-, METHYL ESTER, (1R,3R,5R)-/CN
E2	1	BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-METHYLENE-A-( (4-METHYLPHENYL) SULFONYL)-, METHYL ESTER, (1R,3S,5R)-/CN
E3	0 -->	BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-/CN
E4	1	BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ETHYL ESTER, (1R,3R,5S)-/CN
E5	1	BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ETHYL ESTER, (1R,3S,5S)-/CN
E6	1	BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ETHYL ESTER, (1R-(1A,3A,5A))-/CN
E7	1	BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, METHYL ESTER/CN
E8	1	BICYCLO(3.1.1)HEPTANE-3-ACETONITRILE, 2-CYANO-2,6,6-TRIMETHYL-4-OXO-, (1A,2B,3A,5A)-/CN
E9	1	BICYCLO(3.1.1)HEPTANE-3-ACETONITRILE, 6,6-DIMETHYL-2-METHYLENE-A,A-BIS(METHYLTHIO)-/CN
E10	1	BICYCLO(3.1.1)HEPTANE-3-ACETONITRILE, 6,6-DIMETHYL-2-OXO-, (1R,3R,5S)-/CN
E11	1	BICYCLO(3.1.1)HEPTANE-3-BUTANAL, A,2,6,6-TETRAMETHYL-/CN
E12	1	BICYCLO(3.1.1)HEPTANE-3-BUTANOIC ACID, A-FLUORO-6,6-DIMETHYL-2-((5-(2-METHYL-1H-PYRROL-1-YL) SULFONYL)-2-THIENYL) CARBONYL)AMINO)-, (1R,2R,3S,5S)-/CN

=> e4

L1	1	"BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ETHYL ESTER, (1R,3R,5S)-"/CN
----	---	---

=> d l1\

'L1\' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats

are: (RN = CAS Registry Number)

REG - RN  
SAM - Index Name, MF, and structure - no RN  
FIDE - All substance data, except sequence data  
IDE - FIDE, but only 50 names  
SQIDE - IDE, plus sequence data  
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used  
SQD - Protein sequence data, includes RN  
SQD3 - Same as SQD, but 3-letter amino acid codes are used  
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties  
EPROP - Table of experimental properties  
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract  
APPS -- Application and Priority Information  
BIB -- CA Accession Number, plus Bibliographic Data  
CAN -- CA Accession Number  
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)  
IND -- Index Data  
IPC -- International Patent Classification  
PATS -- PI, SO  
STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels  
IBIB -- BIB, indented, with text labels  
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

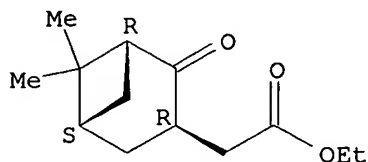
HELP DFIELDS -- To see a complete list of individual display fields.  
HELP FORMATS -- To see detailed descriptions of the predefined formats.  
ENTER DISPLAY FORMAT (IDE):end

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 126264-10-6 REGISTRY  
ED Entered STN: 06 Apr 1990  
CN **Bicyclo[3.1.1]heptane-3-acetic acid, 6,6-dimethyl-2-oxo-, ethyl ester, (1R,3R,5S)- (9CI) (CA INDEX NAME)**  
OTHER CA INDEX NAMES:  
CN Bicyclo[3.1.1]heptane-3-acetic acid, 6,6-dimethyl-2-oxo-, ethyl ester, [1R-(1 $\alpha$ ,3 $\alpha$ ,5 $\alpha$ )]-

FS STEREOSEARCH  
 MF C13 H20 O3  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4 REFERENCES IN FILE CA (1907 TO DATE)  
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e5

L2 1 "BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ETHYL  
 ESTER, (1R,3S,5S)-"/CN

=> e6

L3 1 "BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, ETHYL  
 ESTER, (1R-(1A,3A,5A))-"/CN

=> e7

L4 1 "BICYCLO(3.1.1)HEPTANE-3-ACETIC ACID, 6,6-DIMETHYL-2-OXO-, METHY  
 L ESTER"/CN

=> e nopinone/cn

E1 1 NOPINOL, 2-PHENYL-/CN  
 E2 1 NOPINOL, 2-PROPYL-/CN  
 E3 1 --> NOPINONE/CN  
 E4 1 NOPINONE, A-BROMO-/CN  
 E5 1 NOPINONE, SEMICARBAZONE/CN  
 E6 1 NOPIRON WF/CN  
 E7 1 NOPLA KE 831/CN  
 E8 1 NOPOCURE 204, POLYMER WITH 1,6-HEXANEDIYL DI-2-PROPENOATE AN  
 D 2-((3-((1-OXO-2-PROPENYL)OXY)-2,2-BIS(((1-OXO-2-PROPENYL)O  
 XY)METHYL)PROPOXY)METHYL)-2-(((1-OXO-2-PROPENYL)OXY)METHYL)-  
 1,3-PROPANEDIYL DI-2/CN  
 E9 1 NOPOCURE 204, POLYMER WITH 1,6-HEXANEDIYL DI-2-PROPENOATE, 2  
 -((3-((1-OXO-2-PROPENYL)OXY)-2,2-BIS(((1-OXO-2-PROPENYL)OXY)  
 METHYL)PROPOXY)METHYL)-2-(((1-OXO-2-PROPENYL)OXY)METHYL)-1,3  
 -PROPANEDIYL DI-2-PR/CN  
 E10 1 NOPOCURE 204, POLYMER WITH 2,2-BIS(((1-OXO-2-PROPENYL)OXY)ME  
 THYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND 2-((3-((1-OXO-2-PR  
 OPENYL)OXY)-2,2-BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)ME  
 THYL)-2-(((1-OXO-2-P/CN  
 E11 1 NOPOCURE 204, POLYMER WITH 2-((3-((1-OXO-2-PROPENYL)OXY)-2,2  
 -BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)METHYL)-2-(((1-  
 OXO-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND  
 A,A',.A/CN  
 E12 1 NOPOCURE 204, POLYMER WITH 2-((3-((1-OXO-2-PROPENYL)OXY)-2,2  
 -BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)METHYL)-2-(((1-  
 OXO-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND  
 OXYBIS(METHYL-2,1-E/CN



=> e3

L5 1 NOPINONE/CN

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

29.66

29.87

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FILE COVERS 1907 - 15 Jun 2006 VOL 144 ISS 25

FILE LAST UPDATED: 13 Jun 2006 (20060613/ED)

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=> 11 or 12 Or 13 or 14

MISSING OPERATOR L2 OR

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> 11 or 12 or 13 or 14

4 L1

1 L2

4 L3

1 L4

L6 5 L1 OR L2 OR L3 OR L4

=> 15

L7 260 L5

=> 16 and 17

L8 1 L6 AND L7

=> d 18 ti fbib abs

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

TI Catalyst components for polymerization of  $\alpha$ -olefins and manufacture of  $\alpha$ -olefin polymers

AN 1995:220794 CAPLUS

DN 122:188427

TI Catalyst components for polymerization of  $\alpha$ -olefins and manufacture of  $\alpha$ -olefin polymers

IN Sugano, Toshihiko; Uchino, Hidefumi; Takahama, Tomohiko

PA Mitsubishi Petrochemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

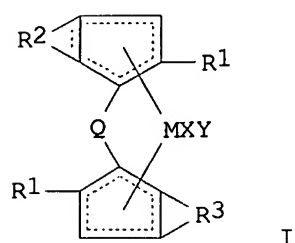
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06239917	A2	19940830	JP 1993-30932	19930219
				JP 1993-30932	19930219
OS	MARPAT 122:188427				
GI					



AB  $\alpha$ -Olefins are polymerized with catalysts comprising transition metal compds. I [R1 = H, C1-6 hydrocarbyl, Si-containing C1-12 hydrocarbyl; R2-3 = C3-30 hydrocarbylene; 1 of R2-3 have condensed ring; M = Group IVB-VIB transition metal; Q = C1-20 hydrocarbylene, (C1-20 hydrocarbyl-containing) silylene, (C1-20 hydrocarbyl-containing) germylene; X, Y = H, halo, (O-containing) C1-20 hydrocarbyl] and another component chosen from Al oxy compds., Lewis acids, and ionic compds. reactive with I. Thus, propylene was prepolymd. with methylalumoxane and dimethylsilylenebis[4-(5,9,9-trimethyltricyclo[6.1.1.0]deca-4,6-dien-3-yl)]zirconium dichloride (II; preparation given) at 20° and 1 kg/cm2G for 15 min and polymerized at 40° and 7 kg/cm2G for 2 h to give a polymer with catalyst activity 10.1 + 104 g-polymer/g-II, number average mol. weight 24.5 + 104, polydispersity 2.21, and m.p. 154.5°.

=> d 16 1-5 ti fbib abs

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone

AN 2002:675080 CAPLUS

DN 138:4699

TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone

AU Campos, Kevin R.; Lee, Sandra; Journet, Michel; Kowal, Jason J.; Cai, Dongwei; Larsen, Robert D.; Reider, Paul J.

CS Department of Process Research, Merck Research Laboratories, Rahway, NJ, 07065, USA

SO Tetrahedron Letters (2002), 43(39), 6957-6959  
CODEN: TELEAY; ISSN: 0040-4039

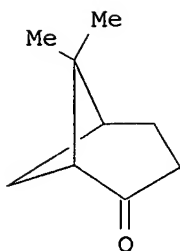
PB Elsevier Science Ltd.

DT Journal

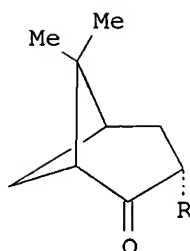
LA English

OS CASREACT 138:4699

GI



I



II

AB A general method for the monoalkylation of (+)-nopinone (I) was developed for a variety of carbon and heteroatom electrophiles to afford the kinetically controlled product II with high diastereoselectivity (98% d.e.) and excellent yield (75-90%).

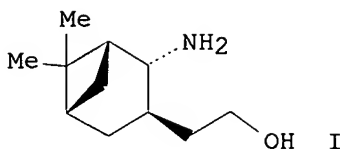
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Process for producing bicyclic amino alcohol from (+)-nopinone  
AN 2001:31442 CAPLUS  
DN 134:101033  
TI Process for producing bicyclic amino alcohol from (+)-nopinone  
IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Mitsumori, Susumu  
PA Shionogi & Co., Ltd., Japan  
SO PCT Int. Appl., 50 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001002334	A1	20010111	WO 2000-JP4171	20000626
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1193243	A1	20020403	JP 1999-188674	A 19990702
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			WO 2000-939160	20000626
JP 3730170	B2	20051221	JP 1999-188674	A 19990702
			WO 2000-JP4171	W 20000626
			JP 2001-507777	20000626
			JP 1999-188674	A 19990702
			WO 2000-JP4171	W 20000626
US 6723857	B1	20040420	US 2002-19670	20020102
			JP 1999-188674	A 19990702
			WO 2000-JP4171	W 20000626
US 2004171882	A1	20040902	US 2004-784930	20040225
			JP 1999-188674	A 19990702
			WO 2000-JP4171	W 20000626
			US 2002-19670	A3 20020102

OS CASREACT 134:101033; MARPAT 134:101033

GI



AB The bicyclic amino alc. I is prepared by reaction of (+)-nopinone with XCH<sub>2</sub>CO<sub>2</sub>R<sub>1</sub> (X = halo; R<sub>1</sub> = alkyl) in the presence of an additive and a base, followed by conversion of the product into an oxime, and reduction of the oxime. I is then converted in several steps to a known PGD<sub>2</sub> antagonist.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Process for producing benzothiophenecarboxylic acid amide derivatives  
AN 1999:640851 CAPLUS  
DN 131:243177  
TI Process for producing benzothiophenecarboxylic acid amide derivatives  
IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Okada, Tetsuo; Kakinuma, Makoto  
PA Shionogi & Co., Ltd., Japan  
SO PCT Int. Appl., 36 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9950261	A1	19991007	WO 1999-JP1617	19990330
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2326418	AA	19991007	JP 1998-87311 CA 1999-2326418 JP 1998-87311 WO 1999-JP1617	A 19980331 19990330 A 19980331 W 19990330
	AU 9929602	A1	19991018	AU 1999-29602	19990330
	AU 747860	B2	20020523		
	BR 9909286	A	20001205	JP 1998-87311 WO 1999-JP1617 BR 1999-9286 JP 1998-87311 WO 1999-JP1617	A 19980331 W 19990330 19990330 A 19980331 W 19990330
	EP 1069123	A1	20010117	EP 1999-910765	19990330
	EP 1069123	B1	20041110		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	TR 200002842	T2	20010122	JP 1998-87311 WO 1999-JP1617 TR 2000-200002842	A 19980331 W 19990330 19990330
	TW 458975	B	20011011	JP 1998-87311 TW 1999-88105051 JP 1998-87311	A 19980331 19990330 A 19980331

TR 200101802	T2	20011022	TR 2001-200101802	19990330
RU 2185380	C1	20020720	JP 1998-87311	A 19980331
			RU 2000-127103	19990330
			JP 1998-87311	A 19980331
JP 3340428	B2	20021105	WO 1999-JP1617	W 19990330
			JP 2000-541165	19990330
			JP 1998-87311	A 19980331
AT 282035	E	20041115	WO 1999-JP1617	W 19990330
			AT 1999-910765	19990330
			JP 1998-87311	A 19980331
ES 2233027	T3	20050601	WO 1999-JP1617	W 19990330
			ES 1999-910765	19990330
ZA 2000004721	A	20010308	JP 1998-87311	A 19980331
			ZA 2000-4721	20000907
NO 2000004918	A	20001128	JP 1998-87311	A 19980331
			NO 2000-4918	20000929
			JP 1998-87311	A 19980331
US 6399788	B1	20020604	WO 1999-JP1617	W 19990330
			US 2000-647353	20000929
			JP 1998-87311	A 19980331
JP 2002193898	A2	20020710	WO 1999-JP1617	W 19990330
JP 3629460	B2	20050316	JP 2001-353060	20011119
			JP 1998-87311	A 19980331
US 2002115871	A1	20020822	JP 2000-541165	A3 19990330
US 6462241	B2	20021008	US 2002-133353	20020429
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
US 6455741	B2	20020924	US 2000-647353	A3 20000929
US 2002156297	A1	20021024	US 2002-133319	20020429
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
US 6465662	B2	20021015	US 2000-647353	A3 20000929
US 2002161242	A1	20021031	US 2002-133313	20020429
			JP 1998-87311	A 19980331
			WO 1999-JP1617	W 19990330
			US 2000-647353	A3 20000929
OS	CASREACT 131:243177; MARPAT 131:243177			
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Disclosed are a process for producing 7-[(1R,2R,3S,5S)-2-(hydroxybenzo[b]thiophen-3-ylcarbonylamino)-10-norpinan-3-yl]-5-heptenoic acid compds. having PGD2 antagonism represented by formula (I; R = H, HO-protecting group; X = H, alkyl; the double bond is either in E or Z configuration), pharmaceutically acceptable salts thereof or hydrates of the same characterized by reacting an amino alc., namely [(1R,2R,3R,5S)-2-amino-10-norpinan-3-yl]ethanol, of formula (II) or its salt with a hydroxybenzo[b]thiophene-3-carboxylic acid compound of formula (III) or its reactive derivative, oxidizing the obtained product in the presence of 2,2,6,6,-tetramethylpiperidine-1-oxyls, and then reacting with an ylide under Wittig reaction conditions optionally followed by deblocking. The amino alc. (II) is prepared by reduction of oximes (IV; R2 = alkyl; R3 = H, alkyl). I are useful for the treatment of diseases related to failure of mast cell function caused by over-production of PGD and are used as remedies for systemic mast cell disease or mast cell activation

disorder, allergic rhinitis, allergic conjunctivitis, nettle rash (urticaria), ischemic reperfusion disorder, and atopic dermatitis and as bronchodilators, antiasthmatics, and antiinflammatory agents (no data).  
 II. PhCO<sub>2</sub>H (preparation given) was suspended in water, treated with 1 N aqueous

HCl,

and extracted with EtOAc to remove precipitated benzoic acid. The organic layer was

washed with water and the combined aqueous layer was treated with 4 N aqueous NaOH

under ice-cooling and then dropwise with a solution of 5-(benzenesulfonyloxy)benzo[b]thiophene-3-carbonyl chloride in THF over 15 min and stirred at the same temperature for 15 h to give 95.6% intermediate (V; R<sub>1</sub> = CH<sub>2</sub>OH). The latter alc. was dissolved in EtOAc, treated with TEMPO and KBr and then dropwise with a solution of 0.41 N aqueous NaOCl (adjusted to

pH

9.5 with NaHCO<sub>3</sub>) at -1° to 6° over 3 min, and stirred at the same temperature for 10 min to give 100% aldehyde (V; R<sub>1</sub> = CHO) which underwent Wittig reaction with 4-carboxybutyltriphenylphosphonium bromide in the presence of Me<sub>3</sub>COK in THF under ice-cooling for 2 h followed by treatment with a mixture of 4 N aqueous NaOH and DMSO at 55° for 2 h to give II 76.0% (OR = 5-OH, X = H).

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Catalyst components for polymerization of  $\alpha$ -olefins and manufacture of  $\alpha$ -olefin polymers

AN 1995:220794 CAPLUS

DN 122:188427

TI Catalyst components for polymerization of  $\alpha$ -olefins and manufacture of  $\alpha$ -olefin polymers

IN Sugano, Toshihiko; Uchino, Hidefumi; Takahama, Tomohiko

PA Mitsubishi Petrochemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

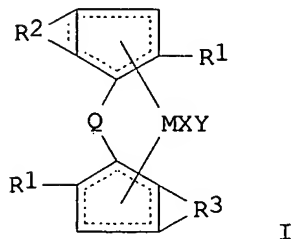
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06239917	A2	19940830	JP 1993-30932	19930219
				JP 1993-30932	19930219

OS MARPAT 122:188427

GI



AB  $\alpha$ -Olefins are polymerized with catalysts comprising transition metal compds. I [R<sub>1</sub> = H, C1-6 hydrocarbyl, Si-containing C1-12 hydrocarbyl; R<sub>2</sub>-3 = C3-30 hydrocarbylene; 1 of R<sub>2</sub>-3 have condensed ring; M = Group IVB-VIB

transition metal; Q = C1-20 hydrocarbylene, (C1-20 hydrocarbyl-containing) silylene, (C1-20 hydrocarbyl-containing) germylene; X, Y = H, halo, (O-containing) C1-20 hydrocarbyl] and another component chosen from Al oxy compds., Lewis acids, and ionic compds. reactive with I. Thus, propylene was prepolymd. with methylalumoxane and dimethylsilylenebis[4-(5,9,9-trimethyltricyclo[6.1.1.0]deca-4,6-dien-3-yl)]zirconium dichloride (II; preparation given) at 20° and 1 kg/cm2G for 15 min and polymerized at 40° and 7 kg/cm2G for 2 h to give a polymer with catalyst activity 10.1 + 104 g-polymer/g-II, number average mol. weight 24.5 + 104, polydispersity 2.21, and m.p. 154.5°.

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Thromboxane A2 receptor antagonists. III. Synthesis and pharmacological activity of 6,6-dimethylbicyclo[3.1.1]heptane derivatives with a substituted sulfonylamino group at C-2  
 AN 1990:179482 CAPLUS  
 DN 112:179482  
 TI Thromboxane A2 receptor antagonists. III. Synthesis and pharmacological activity of 6,6-dimethylbicyclo[3.1.1]heptane derivatives with a substituted sulfonylamino group at C-2  
 AU Seno, Kaoru; Hagishita, Sanji  
 CS Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, 553, Japan  
 SO Chemical & Pharmaceutical Bulletin (1989), 37(6), 1524-33  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DT Journal  
 LA English  
 OS CASREACT 112:179482  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Four stereoisomers of the title compds., I (1R,2S,3S,5S; 1R,2R,3S,5S; 1R,2S,3R,5S) and II (2R,3R), were synthesized from (-)-myrtenol and (+)-nopinone. The (1R,2R,3S,5S)-isomer of I had the most potent inhibitory activity against platelet aggregation and did not show partial agonist activity (shape change of platelets). The antipode I (1S,2S,3R,5R) and derivs. III (R = Me, PhCH2, biphenyl, 2-naphthyl, p-O2NC6H4, p-MeOC6H4, PhCH2CH2CH2, PhCH2CH2, p-ClC6H4, o-ClC6H4, m-ClC6H4, p-EtC6H4, p-MeC6H4, p-FC6H4, p-HOC6H4) were also prepared. The one-carbon homologated compound IV was also prepared. The inhibitory activities of these compds. against platelet aggregation were measured.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	26.10	55.97
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.50	-4.50

SESSION WILL BE HELD FOR 60 MINUTES  
 STN INTERNATIONAL SESSION SUSPENDED AT 07:39:18 ON 15 JUN 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 07:40:42 ON 15 JUN 2006  
FILE 'CAPLUS' ENTERED AT 07:40:42 ON 15 JUN 2006  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	26.10	55.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.50	-4.50

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	26.10	55.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.50	-4.50

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STRUCTURE FILE UPDATES: 14 JUN 2006 HIGHEST RN 887828-19-5  
DICTIONARY FILE UPDATES: 14 JUN 2006 HIGHEST RN 887828-19-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:



<http://www.cas.org/ONLINE/UG/regprops.html>

=> e N,N-dimethylpropyleneurea/cn

E1	1	N,N-DIMETHYLPROPYLENEDIAMINE DIHYDROCHLORIDE/CN
E2	1	N,N-DIMETHYLPROPYLENEDIAMINE-EPICHLOROHYDRIN COPOLYMER/CN
E3	0 -->	N,N-DIMETHYLPROPYLENEUREA/CN
E4	1	N,N-DIMETHYLPROPYNAL/CN
E5	1	N,N-DIMETHYLPROPYNAMIDE/CN
E6	1	N,N-DIMETHYLPROTRIPTYLINE/CN
E7	1	N,N-DIMETHYLPROTRIPTYLINE BROMIDE/CN
E8	1	N,N-DIMETHYLPROTRIPTYLINE HYDROGEN PHOSPHATE/CN
E9	1	N,N-DIMETHYLPROTRIPTYLINE PICRATE/CN
E10	1	N,N-DIMETHYLPUSEUDOMERUCATHINE/CN
E11	1	N,N-DIMETHYLPUTRESCINE/CN
E12	1	N,N-DIMETHYLPYRAZINECARBOXAMIDE/CN

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.88	56.85
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.50

FILE 'CAPLUS' ENTERED AT 07:42:04 ON 15 JUN 2006  
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FILE COVERS 1907 - 15 Jun 2006 VOL 144 ISS 25  
FILE LAST UPDATED: 13 Jun 2006 (20060613/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> dimethylpropyleneurea

L9 138 DIMETHYLPROPYLENEUREA

=> alkylation

96014 ALKYLATION  
2535 ALKYLATIONS  
L10 96558 ALKYLATION  
(ALKYLATION OR ALKYLATIONS)

=> l9 and l10

L11 6 L9 AND L10

=> d l11 1-6 ti

L11 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI **Alkylation** of asymmetric phosphoramidates (part I)

L11 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Synthesis and structure of functionalized cyclododecadiynes and -dienes

L11 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI A reductive homo-coupling polymerization of aromatic diisocyanates promoted by samarium iodide

L11 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Use of N,N-**dimethylpropyleneurea** (DMPU) as solvent in the efficient preparation of enantiomerically pure secondary amines

L11 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI The ratio of induced recessive lethals to ring-X loss has prognostic value in terms of functionality of chemical mutagens in *Drosophila melanogaster*

L11 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Stereoselective **alkylation** at C( $\alpha$ ) of serine, glyceric acid, threonine, and tartaric acid involving heterocyclic enolates with exocyclic double bonds

=> DMPU

L12 285 DMPU

=> l10 and l12

L13 43 L10 AND L12

=> l10(l)l12

L14 31 L10(L)L12

=> d l14 21-31 ti

L14 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Preparation of cyclic sulfamides used for the synthesis of HIV protease inhibitors via cyclization of protected linear diamino diols with SO<sub>2</sub> precursors followed by alkylation

L14 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI A new synthesis of ( $\pm$ )-phoracantholide, ( $\pm$ )-dihydrorecifeiolide, and ( $\pm$ )-muscone via  $\alpha$ -nitro ketones

L14 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI The synthesis of deuterated 4-2H- $\alpha$ -farnesene and 1-2H- $\alpha$ -farnesene

L14 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Enantioselective synthesis of 2-alkyl substituted cysteines

L14 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI C-alkylation of sarcosine residues in cyclic tetrapeptides via lithium enolates

L14 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI C-Alkylation of peptides through polythiated and lithium chloride solvated derivatives containing sarcosine lithium enolate units

L14 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Replacement of carcinogenic solvent HMPA by DMI in insect sex pheromone synthesis

L14 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI trans-Disubstituted cyclohexadienes via sequential addition of a carbon nucleophile and an electrophile to ( $\eta^6$ -benzene)tricarbonylchromium: scope of carbon electrophiles

L14 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Mono- and dialkylation of derivatives of (1R,2S)-2-hydroxycyclopentanecarboxylic acid and -cyclohexanecarboxylic acid via bicyclic dioxanones: selective generation of three contiguous stereogenic centers on a cyclohexane ring

L14 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI 1,3-Dimethyl-2-oxohexahydropyrimidine (DMPU): an alternative to HMPT in moth sex pheromone synthesis

L14 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Stereoselective alkylation at C( $\alpha$ ) of serine, glyceric acid, threonine, and tartaric acid involving heterocyclic enolates with exocyclic double bonds

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	16.06	72.91
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.50

SESSION WILL BE HELD FOR 60 MINUTES  
 STN INTERNATIONAL SESSION SUSPENDED AT 07:47:47 ON 15 JUN 2006

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Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
 SESSION RESUMED IN FILE 'CAPLUS' AT 08:11:40 ON 15 JUN 2006  
 FILE 'CAPLUS' ENTERED AT 08:11:40 ON 15 JUN 2006  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	16.06	72.91
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.50

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	16.06	72.91
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION

CA SUBSCRIBER PRICE

0.00 -4.50

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STRUCTURE FILE UPDATES: 14 JUN 2006 HIGHEST RN 887828-19-5  
DICTIONARY FILE UPDATES: 14 JUN 2006 HIGHEST RN 887828-19-5

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

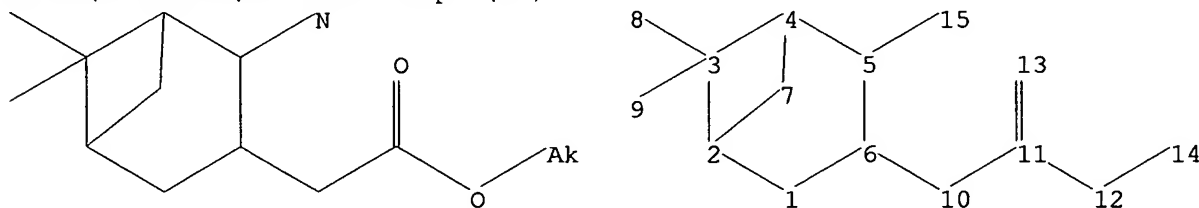
Structure search iteration limits have been increased. See HELP SLIMITS  
for details.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary  
files\10784930\10784930 compd (IV).str



chain nodes :

8 9 10 11 12 13 14 15

ring nodes :

1 2 3 4 5 6 7

chain bonds :

3-8 3-9 5-15 6-10 10-11 11-12 11-13 12-14

ring bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6 5-15 11-12 11-13 12-14

exact bonds :

3-8 3-9 6-10 10-11

Hydrogen count :

1:>= minimum 2 5:>= minimum 1 6:>= minimum 1 10:>= minimum 2

Match level :

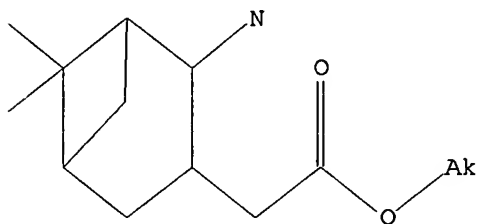
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS  
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L15 STRUCTURE UPLOADED

=> d l15

L15 HAS NO ANSWERS

L15 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l15 sss sam

SAMPLE SEARCH INITIATED 08:12:18 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 8 TO 329

PROJECTED ANSWERS: 0 TO 0

L16 0 SEA SSS SAM L15

=> search l15 sss full

FULL SEARCH INITIATED 08:12:28 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 290 TO ITERATE

100.0% PROCESSED 290 ITERATIONS

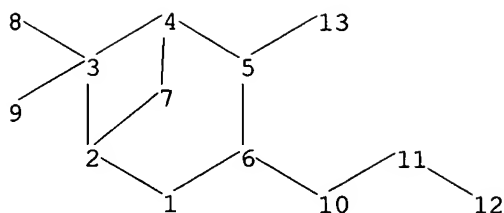
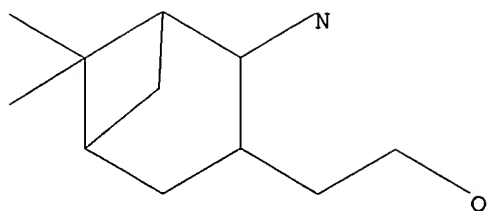
0 ANSWERS

SEARCH TIME: 00.00.01

L17 0 SEA SSS FUL L15

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary  
files\10784930\10784930 correct compd (IV) .str



```

chain nodes :
8 9 10 11 12 13
ring nodes :
1 2 3 4 5 6 7
chain bonds :
3-8 3-9 5-13 6-10 10-11 11-12
ring bonds :
1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6
exact/norm bonds :
1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6 5-13 11-12
exact bonds :
3-8 3-9 6-10 10-11

```

```

Hydrogen count :
1:>= minimum 2  5:>= minimum 1  6:>= minimum 1  10:>= minimum 2  11:>= minimum 2
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS

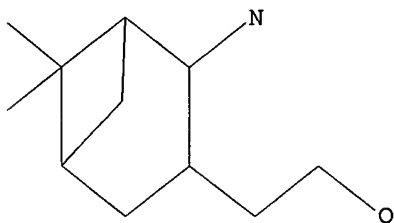
```

L18 STRUCTURE UPLOADED

```

=> d l18
L18 HAS NO ANSWERS
L18 STR

```



Structure attributes must be viewed using STN Express query preparation.

```

=> search l18 sss sam
SAMPLE SEARCH INITIATED 08:15:56 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

```

```

100.0% PROCESSED          8 ITERATIONS          3 ANSWERS
SEARCH TIME: 00.00.01

```

```

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   8 TO      329
PROJECTED ANSWERS:      3 TO      163

```

L19 3 SEA SSS SAM L18

=> dscan

0 DSCAN

L20

0 DSCAN

=> d scan

L20 HAS NO ANSWERS

=> d scan l19

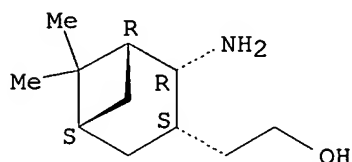
L19 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Bicyclo[3.1.1]heptane-3-ethanol, 2-amino-6,6-dimethyl-, (1R,2R,3S,5S)-  
(9CI)

MF C11 H21 N O

CI COM

Absolute stereochemistry. Rotation (-).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

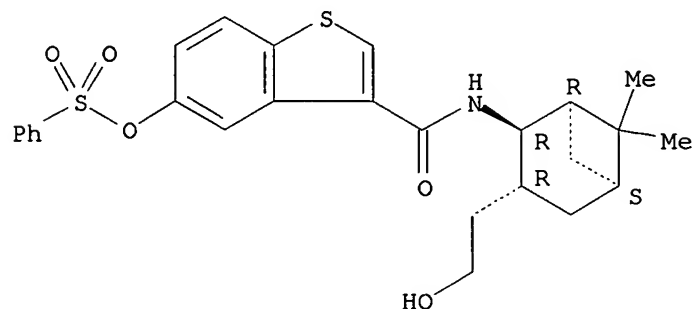
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L19 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Benzo[b]thiophene-3-carboxamide, N-[(1R,2R,3R,5S)-3-(2-hydroxyethyl)-6,6-dimethylbicyclo[3.1.1]hept-2-yl]-5-[(phenylsulfonyl)oxy]- (9CI)

MF C26 H29 N O5 S2

Absolute stereochemistry. Rotation (+).

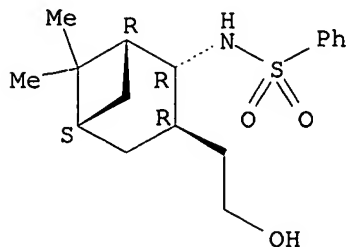


L19 3 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Benzenesulfonamide, N-[3-(2-hydroxyethyl)-6,6-dimethylbicyclo[3.1.1]hept-2-yl]-, [1R-(1 $\alpha$ ,2 $\beta$ ,3 $\alpha$ ,5 $\alpha$ )]- (9CI)

MF C17 H25 N O3 S

Absolute stereochemistry.

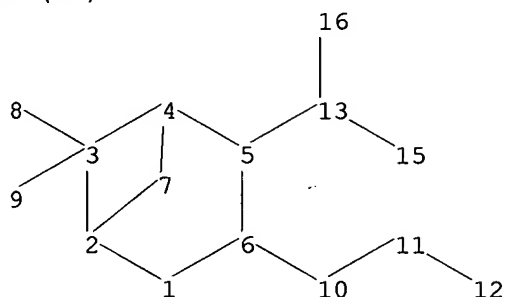
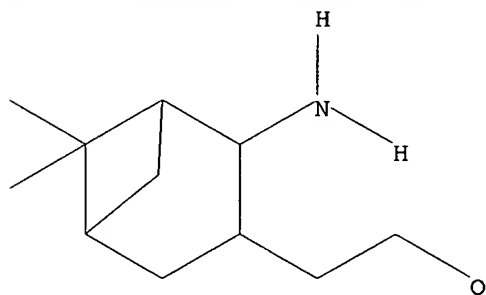


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10784930\10784930 NH2 fixed compd (IV) .str



chain nodes :

8 9 10 11 12 13 15 16

ring nodes :

1 2 3 4 5 6 7

chain bonds :

3-8 3-9 5-13 6-10 10-11 11-12 13-15 13-16

ring bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6 5-13 11-12

exact bonds :

3-8 3-9 6-10 10-11 13-15 13-16

Hydrogen count :

1:>= minimum 2 5:>= minimum 1 6:>= minimum 1 10:>= minimum 2 11:>= minimum 2

13:>= minimum 2

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS  
11:CLASS 12:CLASS 13:CLASS 15:CLASS 16:CLASS

L21 STRUCTURE UPLOADED

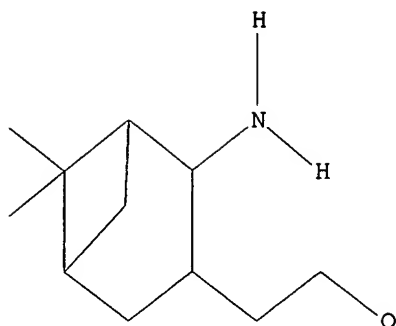
=> d 121

L21 HAS NO ANSWERS



L21

STR



Structure attributes must be viewed using STN Express query preparation.

=> search l21 sss sam

SAMPLE SEARCH INITIATED 08:18:54 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED

8 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 8 TO 329

PROJECTED ANSWERS: 1 TO 80

L22

1 SEA SSS SAM L21

=> d scan

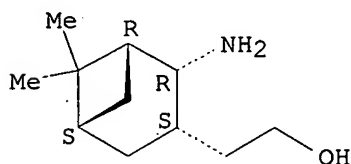
L22 1 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Bicyclo[3.1.1]heptane-3-ethanol, 2-amino-6,6-dimethyl-, (1R,2R,3S,5S)-  
(9CI)

MF C11 H21 N O

CI COM

Absolute stereochemistry. Rotation (-).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> e Bicyclo(1.1.1)heptane-3-ethanol, 2-amino-6,6-dimethyl-, /cn

E1 2 BICYCLO(1.1.1)DISILOXANE, PHOSPHINE DERIV./CN

E2 1 BICYCLO(1.1.1)DISILOXANE-1,3-DIYLBIS(OXY)/CN

E3 0 --> BICYCLO(1.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, /CN

E4 1 BICYCLO(1.1.1)PENT-1-ENE/CN

```

E5      1      BICYCLO(1.1.1)PENT-1-ENE, 2,3-DICHLORO-/CN
E6      1      BICYCLO(1.1.1)PENT-1-ENE, 4-METHYLENE-/CN
E7      1      BICYCLO(1.1.1)PENT-1-YL/CN
E8      1      BICYCLO(1.1.1)PENT-1-YL RADICAL/CN
E9      1      BICYCLO(1.1.1)PENT-1-YL, 3-(1,1-DIMETHYLETHYL)-/CN
E10     1      BICYCLO(1.1.1)PENT-1-YL, 3-(DIMETHYLAMINO)-/CN
E11     1      BICYCLO(1.1.1)PENT-1-YL, 3-(DIPHENYLMETHYLENE)-/CN
E12     1      BICYCLO(1.1.1)PENT-1-YL, 3-(METHOXYCARBONYL)-/CN

```

=> e Bicyclo(3.1.1)heptane-3-ethanol, 2-amino-6,6-dimethyl-,/cn

```

E1      1      BICYCLO(3.1.1)HEPTANE-3-ETHANAMINE, N-(2,2-DIMETHYLPROPYL)-.
          ALPHA.,2,6,6-TETRAMETHYL-, (1S-(1A,2B,3A(S*
          ),5A))-/CN
E2      1      BICYCLO(3.1.1)HEPTANE-3-ETHANAMINE, N-(2,2-DIMETHYLPROPYL)-.
          ALPHA.,2,6,6-TETRAMETHYL-, LITHIUM SALT, (1S-(1A,2.BET
          A.,3A(S*),5A))-/CN
E3      0 --> BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-,/CN
E4      1      BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,
          2R,3R,5S)-/CN
E5      1      BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,
          2R,3R,5S)-, BENZOATE (SALT)/CN
E6      1      BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,
          2R,3S,5S)-/CN
E7      1      BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,
          2R,3S,5S)-, BENZOATE (SALT)/CN
E8      1      BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,
          2S,3S,5S)-/CN
E9      1      BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,
          2S,3S,5S)-, BENZOATE (SALT)/CN
E10     1      BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R-
          (1A,2B,3A,5A))-/CN
E11     1      BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R-
          (1A,2B,3A,5A))-, BENZOATE (SALT)/CN
E12     1      BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 6,6-DIMETHYL-A-PHENYL
          -, (3(S)-(1A,3B,5A))-/CN

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=> ee4

L23 2 EE4

=> d l23

```

L23  ANSWER 1 OF 2  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   213888-43-8  REGISTRY
ED   Entered STN:  08 Nov 1998
CN   DNA (human clone EE4 sEST (secreted expressed sequence tag)) (9CI)
      (CA INDEX NAME)
FS   NUCLEIC ACID SEQUENCE
MF   Unspecified
CI   MAN
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL

```

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e4

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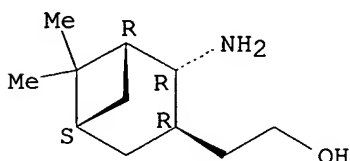
L24      1      "BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,2R,
          3R,5S)-"/CN

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=> d 124

L24 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 126264-12-8 REGISTRY  
ED Entered STN: 06 Apr 1990  
CN Bicyclo[3.1.1]heptane-3-ethanol, 2-amino-6,6-dimethyl-,  
(1R,2R,3R,5S)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Bicyclo[3.1.1]heptane-3-ethanol, 2-amino-6,6-dimethyl-,  
[1R-(1 $\alpha$ ,2 $\beta$ ,3 $\alpha$ ,5 $\alpha$ )]-  
FS STEREOSEARCH  
MF C11 H21 N O  
CI COM  
SR CA  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e5

L25 1 "BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,2R,3R,5S)-, BENZOATE (SALT)"/CN

=> e6

L26 1 "BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,2R,3S,5S)-"/CN

=> e7

L27 1 "BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,2R,3S,5S)-, BENZOATE (SALT)"/CN

=> e8

L28 1 "BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,2S,3S,5S)-"/CN

=> e9

L29 1 "BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R,2S,3S,5S)-, BENZOATE (SALT)"/CN

=> e10

L30 1 "BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R-(1.  
ALPHA.,2B,3A,5A))"/CN

=> e11

L31 1 "BICYCLO(3.1.1)HEPTANE-3-ETHANOL, 2-AMINO-6,6-DIMETHYL-, (1R-(1.  
ALPHA.,2B,3A,5A))-, BENZOATE (SALT)"/CN

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	226.26	299.17
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.50

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 FILE LAST UPDATED: 14 Jun 2006 (20060614/ED)

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=> l25 or l26 or l27 or l28 or l29 or l30 or l31

4 L25  
 3 L26  
 1 L27  
 2 L28  
 1 L29  
 5 L30  
 4 L31

L32 6 L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR L31

=> d l32 1-6 ti fbib abs

L32 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Process for producing bicyclic amino alcohol from (+)-nopinone  
 AN 2001:31442 CAPLUS  
 DN 134:101033  
 TI Process for producing bicyclic amino alcohol from (+)-nopinone  
 IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Mitsumori, Susumu  
 PA Shionogi & Co., Ltd., Japan  
 SO PCT Int. Appl., 50 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2001002334	A1	20010111	WO 2000-JP4171	20000626
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU,				

LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

JP 1999-188674 A 19990702

EP 1193243 A1 20020403 EP 2000-939160 20000626

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

JP 1999-188674 A 19990702

WO 2000-JP4171 W 20000626

JP 3730170 B2 20051221 JP 2001-507777 20000626

JP 1999-188674 A 19990702

WO 2000-JP4171 W 20000626

US 6723857 B1 20040420 US 2002-19670 20020102

JP 1999-188674 A 19990702

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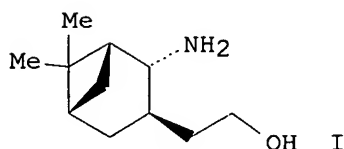
JP 1999-188674 A 19990702

WO 2000-JP4171 W 20000626

US 2002-19670 A3 20020102

OS CASREACT 134:101033; MARPAT 134:101033

GI



AB The bicyclic amino alc. I is prepared by reaction of (+)-nopinone with XCH<sub>2</sub>CO<sub>2</sub>R<sub>1</sub> (X = halo; R<sub>1</sub> = alkyl) in the presence of an additive and a base, followed by conversion of the product into an oxime, and reduction of the oxime. I is then converted in several steps to a known PGD<sub>2</sub> antagonist.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Anti-itching agents containing PGD<sub>2</sub> antagonists

AN 1999:783967 CAPLUS

DN 132:26854

TI Anti-itching agents containing PGD<sub>2</sub> antagonists

IN Arimura, Akinori

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9962555	A1	19991209	WO 1999-JP2820	19990528
	W:				
	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,				
	DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,				
	JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,				
	MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,				
	TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW:				
	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,				

ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,  
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2333868	AA	19991209	JP 1998-154332	A	19980603
			CA 1999-2333868		19990528
			JP 1998-154332	A	19980603
AU 9939551	A1	19991220	WO 1999-JP2820	W	19990528
			AU 1999-39551		19990528
			JP 1998-154332	A	19980603
			WO 1999-JP2820	W	19990528
EP 1084711	A1	20010321	EP 1999-922538		19990528
EP 1084711	B1	20050511			

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI

			JP 1998-154332	A	19980603
			WO 1999-JP2820	W	19990528
AT 295183	E	20050515	AT 1999-922538		19990528
			JP 1998-154332	A	19980603
			WO 1999-JP2820	W	19990528
ES 2241283	T3	20051016	ES 1999-922538		19990528
			JP 1998-154332	A	19980603
US 2002058693	A1	20020516	US 2001-881799		20010618
US 6506789	B2	20030114			

			JP 1998-154332	A	19980603
			US 2000-700283	A1	20001113
US 2003027854	A1	20030206	US 2002-127442		20020423
			JP 1998-154332	A	19980603
			WO 1999-JP2820	W	19990528
			US 2000-700283	B1	20001113
			US 2001-881799	A1	20010618

OS MARPAT 132:26854

AB Disclosed are PGD2 antagonists, e.g., (5Z)-7-[(1R,2R,3S,5S)-2-(5-hydroxybenzo[b]thiophene-3-yl-carbonylamino)-6,6-dimethylbicyclo[3.1.1]hept-3-yl]-5-heptenoic acid (I), and pharmaceutically acceptable salts thereof or hydrates of the same which have an excellent effect of preventing or treating itching and therefore are useful as drugs. The PGD2 antagonist I showed inhibitory effect on scratching behavior of C57BL mice stimulated by compound 48/80 or antigen. Also, a tablet containing I 40, hydroxypropylcellulose 3.6, Mg stearate 0.4, corn starch 18, and lactose 58 mg was prepared

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for producing benzothiophenecarboxylic acid amide derivatives

AN 1999:640851 CAPLUS

DN 131:243177

TI Process for producing benzothiophenecarboxylic acid amide derivatives

IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Okada, Tetsuo; Kakinuma, Makoto

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9950261	A1	19991007	WO 1999-JP1617	19990330
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,			

ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2326418	AA	19991007	JP 1998-87311 A 19980331 CA 1999-2326418 19990330 JP 1998-87311 A 19980331 WO 1999-JP1617 W 19990330 AU 1999-29602 19990330
AU 9929602	A1	19991018	
AU 747860	B2	20020523	
			JP 1998-87311 A 19980331 WO 1999-JP1617 W 19990330 BR 1999-9286 19990330 JP 1998-87311 A 19980331 WO 1999-JP1617 W 19990330 EP 1999-910765 19990330
BR 9909286	A	20001205	
EP 1069123	A1	20010117	
EP 1069123	B1	20041110	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
			JP 1998-87311 A 19980331 WO 1999-JP1617 W 19990330 TR 2000-200002842 19990330 JP 1998-87311 A 19980331 TW 1999-88105051 19990330 JP 1998-87311 A 19980331 TR 2001-200101802 19990330 JP 1998-87311 A 19980331 RU 2000-127103 19990330 JP 1998-87311 A 19980331 WO 1999-JP1617 W 19990330 JP 2000-541165 19990330 JP 1998-87311 A 19980331 WO 1999-JP1617 W 19990330 AT 1999-910765 19990330 JP 1998-87311 A 19980331 WO 1999-JP1617 W 19990330 ES 1999-910765 19990330 JP 1998-87311 A 19980331 ZA 2000-4721 20000907 JP 1998-87311 A 19980331 NO 2000-4918 20000929 JP 1998-87311 A 19980331 WO 1999-JP1617 W 19990330 US 2000-647353 20000929 JP 1998-87311 A 19980331 WO 1999-JP1617 W 19990330 JP 2001-353060 20011119
TR 200002842	T2	20010122	
TW 458975	B	20011011	
TR 200101802	T2	20011022	
RU 2185380	C1	20020720	
JP 3340428	B2	20021105	
AT 282035	E	20041115	
ES 2233027	T3	20050601	
ZA 2000004721	A	20010308	
NO 2000004918	A	20001128	
US 6399788	B1	20020604	
JP 2002193898	A2	20020710	
JP 3629460	B2	20050316	
			JP 1998-87311 A 19980331 JP 2000-541165 A3 19990330 US 2002-133353 20020429
US 2002115871	A1	20020822	
US 6462241	B2	20021008	
			JP 1998-87311 A 19980331 WO 1999-JP1617 W 19990330 US 2000-647353 A3 20000929 US 2002-133319 20020429
US 6455741	B2	20020924	
US 2002156297	A1	20021024	
			JP 1998-87311 A 19980331 WO 1999-JP1617 W 19990330 US 2000-647353 A3 20000929 US 2002-133313 20020429
US 6465662	B2	20021015	
US 2002161242	A1	20021031	
			JP 1998-87311 A 19980331 WO 1999-JP1617 W 19990330 US 2000-647353 A3 20000929

OS CASREACT 131:243177; MARPAT 131:243177  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Disclosed are a process for producing 7-[(1R,2R,3S,5S)-2-(hydroxybenzo[b]thiophen-3-ylcarbonylamino)-10-norpinan-3-yl]-5-heptenoic acid compds. having PGD2 antagonism represented by formula (I; R = H, HO-protecting group; X = H, alkyl; the double bond is either in E or Z configuration), pharmaceutically acceptable salts thereof or hydrates of the same characterized by reacting an amino alc., namely [(1R,2R,3R,5S)-2-amino-10-norpinan-3-yl]ethanol, of formula (II) or its salt with a hydroxybenzo[b]thiophene-3-carboxylic acid compound of formula (III) or its reactive derivative, oxidizing the obtained product in the presence of 2,2,6,6,-tetramethylpiperidine-1-oxyls, and then reacting with an ylide under Wittig reaction conditions optionally followed by deblocking. The amino alc. (II) is prepared by reduction of oximes (IV; R2 = alkyl; R3 = H, alkyl). I are useful for the treatment of diseases related to failure of mast cell function caused by over-production of PGD and are used as remedies for systemic mast cell disease or mast cell activation disorder, allergic rhinitis, allergic conjunctivitis, nettle rash (urticaria), ischemic reperfusion disorder, and atopic dermatitis and as bronchodilators, antiasthmatics, and antiinflammatory agents (no data). II.PhCO2H (preparation given) was suspended in water, treated with 1 N aqueous

HCl, and extracted with EtOAc to remove precipitated benzoic acid. The organic layer was

washed with water and the combined aqueous layer was treated with 4 N aqueous NaOH

under ice-cooling and then dropwise with a solution of 5-(benzenesulfonyloxy)benzo[b]thiophene-3-carbonyl chloride in THF over 15 min and stirred at the same temperature for 15 h to give 95.6% intermediate (V; R1 = CH2OH). The latter alc. was dissolved in EtOAc, treated with TEMPO and KBr and then dropwise with a solution of 0.41 N aqueous NaOCl (adjusted to

pH 9.5 with NaHCO3) at -1° to 6° over 3 min, and stirred at the same temperature for 10 min to give 100% aldehyde (V; R1 = CHO) which underwent Wittig reaction with 4-carboxybutyltriphenylphosphonium bromide in the presence of Me3COK in THF under ice-cooling for 2 h followed by treatment with a mixture of 4 N aqueous NaOH and DMSO at 55° for 2 h to give II 76.0% (OR = 5-OH, X = H).

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for producing 5-hydroxybenzo[b]thiophene-3-carboxylic acid derivatives

AN 1999:640850 CAPLUS

DN 131:243176

TI Process for producing 5-hydroxybenzo[b]thiophene-3-carboxylic acid derivatives

IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 40 pp.  
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9950260	A1	19991007	WO 1999-JP1616	19990330
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				JP 1998-85819	A 19980331
CA 2326419	AA	19991007	CA 1999-2326419		19990330
			JP 1998-85819	A	19980331
			WO 1999-JP1616	W	19990330
AU 9929601	A1	19991018	AU 1999-29601		19990330
AU 745129	B2	20020314			
			JP 1998-85819	A	19980331
			WO 1999-JP1616	W	19990330
BR 9909290	A	20001205	BR 1999-9290		19990330
			JP 1998-85819	A	19980331
			WO 1999-JP1616	W	19990330
EP 1069122	A1	20010117	EP 1999-910764		19990330
EP 1069122	B1	20050629			
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			JP 1998-85819	A	19980331
			WO 1999-JP1616	W	19990330
TR 200002839	T2	20010122	TR 2000-200002839		19990330
			JP 1998-85819	A	19980331
TR 200101628	T2	20020722	TR 2001-200101628		19990330
			JP 1998-85819	A	19980331
RU 2186065	C1	20020727	RU 2000-127108		19990330
			JP 1998-85819	A	19980331
			WO 1999-JP1616	W	19990330
CN 1117743	B	20030813	CN 1999-804788		19990330
			JP 1998-85819	A	19980331
JP 3455181	B2	20031014	JP 2000-541164		19990330
			JP 1998-85819	A	19980331
			WO 1999-JP1616	W	19990330
EP 1528060	A1	20050504	EP 2004-26501		19990330
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			JP 1998-85819	A	19980331
			EP 1999-910764	A3	19990330
AT 298747	E	20050715	AT 1999-910764		19990330
			JP 1998-85819	A	19980331
			WO 1999-JP1616	W	19990330
ES 2244179	T3	20051201	ES 1999-910764		19990330
			JP 1998-85819	A	19980331
ZA 2000004720	A	20010309	ZA 2000-4720		20000907
			JP 1998-85819	A	19980331
NO 2000004919	A	20001128	NO 2000-4919		20000929
			JP 1998-85819	A	19980331
			WO 1999-JP1616	W	19990330
US 6320060	B1	20011120	US 2000-647354		20000929
			JP 1998-85819	A	19980331
			WO 1999-JP1616	W	19990330
US 2002016476	A1	20020207	US 2001-962189		20010926
US 6346628	B2	20020212			
			JP 1998-85819	A	19980331
			WO 1999-JP1616	W	19990330
			US 2000-647354	A3	20000929
US 2002026061	A1	20020228	US 2001-962439		20010926
US 6495702	B2	20021217			



N aqueous NaOCl and 31% aqueous H2O2 at room temperature for 2 h to give 51.7% 5-(benzenesulfonyloxy)benzo[b]thiophene-3-carboxylic acid (I; R = benzenesulfonyl) which was refluxed with SOCl2 in the presence of one drop of DMF for 1.5 h to give 5-(benzenesulfonyloxy)benzo[b]thiophene-3-carbonyl chloride. This compound was condensed with 2-[(1R,2R,3R,5S)-2-amino-10-norpinan-3-yl]ethanol in aqueous THF containing NaOH under ice-cooling for 1 h to give 95.6% intermediate (III; R1 = CH2OH) which was oxidized by oxalyl chloride/DMSO in dimethoxyethane at -55° to -60° for 30 min to give 100% aldehyde (III; R1 = CHO) and underwent Wittig reaction with 4-carboxybutyltriphenylphosphonium bromide in the presence of Me3COK in THF under ice-cooling for 2 h followed by treatment with a mixture of 4 N aqueous NaOH and DMSO at 55° for 2 h to give II 76.0% (R = X = H).

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI preparation of benzothiophenecarboxamide derivatives as PGD2 antagonists  
 AN 1998:402435 CAPLUS  
 DN 129:81869  
 TI preparation of benzothiophenecarboxamide derivatives as PGD2 antagonists  
 IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Arimura, Akinori  
 PA Shionogi & Co., Ltd., Japan  
 SO PCT Int. Appl., 64 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9825919	A1	19980618	WO 1997-JP4527	19971210
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
				JP 1996-333495	A 19961213
				JP 1997-254001	A 19970919
	ZA 9711039	A	19980615	ZA 1997-11039	19971209
				JP 1996-333495	A 19961213
	CA 2274591	AA	19980618	CA 1997-2274591	19971210
	CA 2274591	C	20050614		
				JP 1996-333495	A 19961213
				JP 1997-254001	A 19970919
				WO 1997-JP4527	W 19971210
	AU 9854097	A1	19980703	AU 1998-54097	19971210
	AU 718958	B2	20000504		
				JP 1996-333495	A 19961213
				JP 1997-254001	A 19970919
				WO 1997-JP4527	W 19971210
	EP 944614	A1	19990929	EP 1997-947866	19971210
	EP 944614	B1	20020911		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
				JP 1996-333495	A 19961213
				JP 1997-254001	A 19970919
				WO 1997-JP4527	W 19971210
	CN 1240438	A	20000105	CN 1997-180628	19971210
	CN 1105112	B	20030409		
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				JP 1997-254001	A 19970919

BR 9714016	A	20000229	WO 1997-JP4527	W	19971210
			BR 1997-14016		19971210
			JP 1996-333495	A	19961213
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JP 2000514824	T2	20001107	WO 1997-JP4527	W	19971210
JP 3215441	B2	20011009	JP 1998-526492		19971210
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			JP 1997-254001	A	19970919
			WO 1997-JP4527	W	19971210
RU 2161617	C1	20010110	RU 1999-115766		19971210
			JP 1996-333495	A	19961213
			JP 1997-254001	A	19970919
			WO 1997-JP4527	W	19971210
IL 130660	A1	20020310	IL 1997-130660		19971210
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			JP 1997-254001	A	19970919
			WO 1997-JP4527	W	19971210
NZ 336143	A	20020531	NZ 1997-336143		19971210
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			WO 1997-JP4527	W	19971210
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PT 944614	T	20030131	PT 1997-947866		19971210
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IL 145863	A1	20030624	IL 1997-145863		19971210
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IL 145864	A1	20030624	IL 1997-145864		19971210
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TW 438790	B	20010607	TW 1997-86118667		19971211
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US 6083974	A	20000704	US 1999-308176		19990517
			JP 1996-333495	A	19961213
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NO 9902838	A	19990720	NO 1999-2838		19990610
			JP 1996-333495	A	19961213
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			WO 1997-JP4527	W	19971210
MX 9905469	A	20000228	MX 1999-5469		19990611
			JP 1996-333495	A	19961213
			JP 1997-254001	A	19970919
			WO 1997-JP4527	W	19971210
HK 1020045	A1	20021213	HK 1999-104492		19991013

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			JP 1997-254001	A	19970919
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CN 1445225	A	20031001	CN 2002-122760		20020611
			JP 1996-333495	A	19961213
			JP 1997-254001	A	19970919

OS MARPAT 129:81869  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title compds. I and II (R = H, alkyl, alkoxy, halo, hydroxy, acyloxy. (Un)substituted arylsulfonyloxy; X = H, alkyl; the chain double bond may be E or Z) and their pharmaceutically acceptable salts were prepared as agents having PGD2-antagonistic activities, inhibitory activities against infiltration of eosinophils, and being useful as a drug for treating diseases, such as systemic mastocytosis and disorder of systemic mast cell activation, as well as tracheal contraction, asthma, allergic rhinitis, allergic conjunctivitis, urticaria, ischemic reperfusion injury, inflammation and atopic dermatitis. Thus, the bicycloheptyl heptenoate III was treated with 5-acetoxybenzo[b]thiophene-3-carbonyl chloride followed by hydrolysis to give the benzo[b]thiophenylcarbonylamino bicycloheptylheptenoate IV (R = H, Na). The binding IC50 of IV (R = H) with PGD2 receptor was 0.4 nM.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Thromboxane A2 receptor antagonists. III. Synthesis and pharmacological activity of 6,6-dimethylbicyclo[3.1.1]heptane derivatives with a substituted sulfonylamino group at C-2  
AN 1990:179482 CAPLUS  
DN 112:179482  
TI Thromboxane A2 receptor antagonists. III. Synthesis and pharmacological activity of 6,6-dimethylbicyclo[3.1.1]heptane derivatives with a substituted sulfonylamino group at C-2  
AU Seno, Kaoru; Hagishita, Sanji  
CS Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, 553, Japan  
SO Chemical & Pharmaceutical Bulletin (1989), 37(6), 1524-33  
CODEN: CPBTAL; ISSN: 0009-2363  
DT Journal  
LA English  
OS CASREACT 112:179482  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Four stereoisomers of the title compds., I (1R,2S,3S,5S; 1R,2R,3S,5S; 1R,2S,3R,5S) and II (2R,3R), were synthesized from (-)-myrtenol and (+)-nopinone. The (1R,2R,3S,5S)-isomer of I had the most potent inhibitory activity against platelet aggregation and did not show partial agonist activity (shape change of platelets). The antipode I (1S,2S,3R,5R) and derivs. III (R = Me, PhCH2, biphenyl, 2-naphthyl, p-O2NC6H4, p-MeOC6H4, PhCH2CH2CH2, PhCH2CH2, p-ClC6H4, o-ClC6H4, m-ClC6H4, p-EtC6H4, p-MeC6H4, p-FC6H4, p-HOC6H4) were also prepared. The one-carbon homologated compound IV was also prepared. The inhibitory activities of these compds. against platelet aggregation were measured.

=>

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

28.86

328.03

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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-9.00

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Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*

SESSION RESUMED IN FILE 'CAPLUS' AT 08:51:55 ON 15 JUN 2006

FILE 'CAPLUS' ENTERED AT 08:51:55 ON 15 JUN 2006

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

28.86

328.03

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-4.50

-9.00

=>

Connection closed by remote host

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America

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NEWS 3 JAN 17 Pre-1988 INPI data added to MARPAT

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visualization results

NEWS 5 FEB 22 The IPC thesaurus added to additional patent databases on STN

NEWS 6 FEB 22 Updates in EPFULL; IPC 8 enhancements added

NEWS 7 FEB 27 New STN AnaVist pricing effective March 1, 2006  
 NEWS 8 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes  
 NEWS 9 MAR 22 EMBASE is now updated on a daily basis  
 NEWS 10 APR 03 New IPC 8 fields and IPC thesaurus added to PATDPAFULL  
 NEWS 11 APR 03 Bibliographic data updates resume; new IPC 8 fields and IPC  
 thesaurus added in PCTFULL  
 NEWS 12 APR 04 STN AnaVist \$500 visualization usage credit offered  
 NEWS 13 APR 12 LINSPEC, learning database for INSPEC, reloaded and enhanced  
 NEWS 14 APR 12 Improved structure highlighting in FQHIT and QHIT display  
 in MARPAT  
 NEWS 15 APR 12 Derwent World Patents Index to be reloaded and enhanced during  
 second quarter; strategies may be affected  
 NEWS 16 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records  
 NEWS 17 MAY 11 KOREAPAT updates resume  
 NEWS 18 MAY 19 Derwent World Patents Index to be reloaded and enhanced  
 NEWS 19 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and  
 USPATFULL/USPAT2  
 NEWS 20 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS  
 NEWS 21 JUN 02 The first reclassification of IPC codes now complete in  
 INPADOC

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,  
 CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
 AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.  
 V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT  
<http://download.cas.org/express/v8.0-Discover/>

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 NEWS LOGIN Welcome Banner and News Items  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 09:26:18 ON 15 JUN 2006

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.42	0.42

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FILE COVERS 1907 - 15 Jun 2006 VOL 144 ISS 25  
FILE LAST UPDATED: 14 Jun 2006 (20060614/ED)

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<http://www.cas.org/infopolicy.html>

=> aluminum hydride  
926666 ALUMINUM  
297 ALUMINUMS  
926727 ALUMINUM  
(ALUMINUM OR ALUMINUMS)  
100989 HYDRIDE  
24196 HYDRIDES  
108855 HYDRIDE  
(HYDRIDE OR HYDRIDES)  
L1 8892 ALUMINUM HYDRIDE  
(ALUMINUM(W)HYDRIDE)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.20	6.62

SESSION WILL BE HELD FOR 60 MINUTES  
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Connecting via Winsock to STN

Welcome to STN International! Enter x:x

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PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
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FILE 'CAPLUS' ENTERED AT 09:33:23 ON 15 JUN 2006  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.20	6.62

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.20	6.62

FILE 'REGISTRY' ENTERED AT 09:33:38 ON 15 JUN 2006  
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STRUCTURE FILE UPDATES: 14 JUN 2006 HIGHEST RN 887828-19-5  
DICTIONARY FILE UPDATES: 14 JUN 2006 HIGHEST RN 887828-19-5

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*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
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Structure search iteration limits have been increased. See HELP SLIMITS  
for details.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> e Silane,

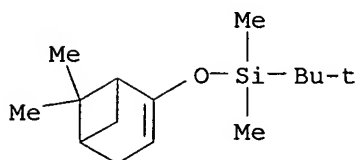
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IMETHYL-/CN
E2      1      SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)METHYL)TR
IMETHYL-, (1S)-/CN
E3      0 --> SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY)(1,1-
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E4      1      SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY)(1,1-
DIMETHYLETHYL)DIMETHYL-/CN
E5      1      SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY)TRIME
THYL-/CN
E6      1      SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY)TRIME
THYL-, (1R)-/CN
E7      1      SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-YL)CARBONYL)DIMET
HYLPHENYL-, (1S-(1A,2A,5A))-/CN
E8      1      SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-YL)CARBONYL)DIMET
HYLPHENYL-, (1S-(1A,2B,5A))-/CN
E9      1      SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-YL)METHOXY)TRIMET
HYL-/CN
E10     1      SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-YL)METHYL)(2',5'-
DIMETHYL(1,1'-BIPHENYL)-3-YL)DIMETHYL-/CN
E11     1      SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-YL)METHYL)(2',5'-
DIMETHYL(1,1'-BIPHENYL)-4-YL)DIMETHYL-/CN
E12     1      SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-YL)METHYL)(3-((4-
((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-YL)METHYL)DIMETHYLSILYL)
PHENYL)ETHYNYL)PHENYL)DIMETHYL-/CN
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=> e4

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L2      1 "SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY)(1,1-DIM
ETHYLETHYL)DIMETHYL-/CN
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=> d 12

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 100015-15-4 REGISTRY  
 ED Entered STN: 01 Feb 1986  
 CN Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy] (1,1-dimethylethyl)dimethyl- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C15 H28 O Si  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

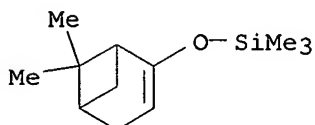
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L3 1 "SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY)TRIMETHYL-  
 L-"/CN

=> d 13

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 106861-99-8 REGISTRY  
 ED Entered STN: 28 Feb 1987  
 CN Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C12 H22 O Si  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

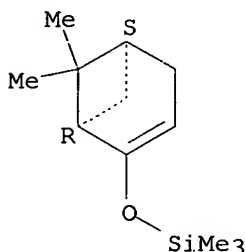
=> e6

L4 1 "SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY)TRIMETHYL-  
 L-, (1R)-"/CN

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 72453-33-9 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Silane, [(1R,5S)-6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl]oxy]trimethyl-  
(9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl-,  
(1R) -  
FS STEREOSEARCH  
MF C12 H22 O Si  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

7 REFERENCES IN FILE CA (1907 TO DATE)  
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e nopinone/cn

E1	1	NOPINOL, 2-PHENYL-/CN
E2	1	NOPINOL, 2-PROPYL-/CN
E3	1	--> NOPINONE/CN
E4	1	NOPINONE, A-BROMO-/CN
E5	1	NOPINONE, SEMICARBAZONE/CN
E6	1	NOPIRON WF/CN
E7	1	NOPLA KE 831/CN
E8	1	NOPOCURE 204, POLYMER WITH 1,6-HEXANEDIYL DI-2-PROPENOATE AND 2-((3-((1-OXO-2-PROPENYL)OXY)-2,2-BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)METHYL)-2-(((1-OXO-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2/CN
E9	1	NOPOCURE 204, POLYMER WITH 1,6-HEXANEDIYL DI-2-PROPENOATE, 2-((3-((1-OXO-2-PROPENYL)OXY)-2,2-BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)METHYL)-2-(((1-OXO-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2-PR/CN
E10	1	NOPOCURE 204, POLYMER WITH 2,2-BIS(((1-OXO-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND 2-((3-((1-OXO-2-PROPENYL)OXY)-2,2-BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)METHYL)-2-(((1-OXO-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND A,A',.A/CN
E11	1	NOPOCURE 204, POLYMER WITH 2-((3-((1-OXO-2-PROPENYL)OXY)-2,2-BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)METHYL)-2-(((1-OXO-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND A,A',.A/CN
E12	1	NOPOCURE 204, POLYMER WITH 2-((3-((1-OXO-2-PROPENYL)OXY)-2,2-BIS(((1-OXO-2-PROPENYL)OXY)METHYL)PROPOXY)METHYL)-2-(((1-OXO-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL DI-2-PROPENOATE AND OXYBIS(METHYL-2,1-E/CN

=> e3

L5 1 NOPINONE/CN

=> file caplus

COST IN U.S. DOLLARS

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ENTRY

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33.56

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FILE COVERS 1907 - 15 Jun 2006 VOL 144 ISS 25

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=> l2 or l3 or l4

1 L2

1 L3

7 L4

L6 9 L2 OR L3 OR L4

=> l5

L7 261 L5

=> (/prepl2 or l3 or l4)

MISSING TERM '(/PREPL2'

=> (l2 or l3 or l4)/prep

QUALIFICATION NOT VALID FOR L2

Field code qualifications can only be applied to text terms.

=> d l6 1-9 ti

L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI A general method for the highly diastereoselective, kinetically controlled alkylation of (+)-nopinone

L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for producing bicyclic amino alcohol from (+)-nopinone

L6 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Carbon-13 magnetic resonance studies. 124. Preparative ring expansions of bicyclic ketones by homoketonization of cyclopropoxide analogs

L6 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Carbon-13 magnetic resonance studies. 120. The Simmons-Smith reaction with some silyl enol ethers. Unusual ring expansions of some norcamphors

L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Electronic absorption and circular dichroism spectra of the perturbed coplanar cis-diene chromophore in deuterium- and methyl-substituted 7,7-dimethylbicyclo[4.1.1]octa-2,4-dienes

L6 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Highly efficient synthesis of (+)-nootkatone from (-)- $\beta$ -pinene

L6 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Nootkatone and vetivone compounds

L6 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Highly efficient synthesis of (+)-nootkatone from (-)- $\beta$ -pinene

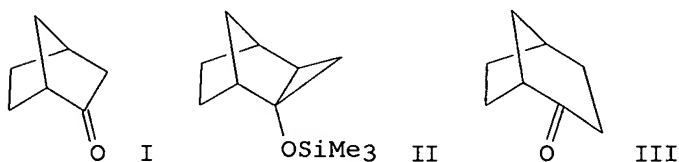
L6 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Synthetic study of (+)-nootkatone from (-)- $\beta$ -pinene

=> 16 and 17

L8 3 L6 AND L7

=> d 18 1-3 ti fbib abs

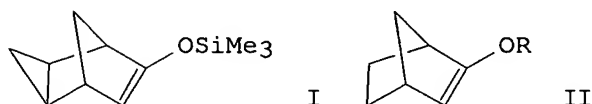
L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Carbon-13 magnetic resonance studies. 124. Preparative ring expansions of bicyclic ketones by homoketonization of cyclopropoxide analogs  
 AN 1987:101776 CAPLUS  
 DN 106:101776  
 TI Carbon-13 magnetic resonance studies. 124. Preparative ring expansions of bicyclic ketones by homoketonization of cyclopropoxide analogs  
 AU Patel, Vijay; Ragauskas, Arthur J.; Stothers, J. B.  
 CS Dep. Chem., Univ. West. Ontario, London, ON, N6A 5B7, Can.  
 SO Canadian Journal of Chemistry (1986), 64(7), 1440-9  
 CODEN: CJCHAG; ISSN: 0008-4042  
 DT Journal  
 LA English  
 OS CASREACT 106:101776  
 GI



AB Homoketonization of some readily prepared cyclopropoxides provides a new synthetic method for ring expansion of the [2.2.1] and [2.2.2] ring systems. Cyclopropanation of the trimethylsilyl enol ethers derived from a variety of polycyclic ketones affords the required cyclopropyl silyl ethers, which may be ketonized directly or hydrolyzed to the corresponding cyclopropanols before ketonization. The results for fourteen examples serve to define the scope of the ring expansion process, and the silyl enol ethers, cyclopropyl silyl ethers, and most of the corresponding cyclopropanols have been characterized by <sup>13</sup>C NMR. The stereochem. of the ketonization leading to ring expansion was established by

deuterium-labeling expts. Thus, bicyclic ketone I was converted to the trimethylsilyl enol ether, which underwent cyclopropanation with CH<sub>2</sub>I<sub>2</sub> in presence of a Zn-Ag couple and the resulting cyclopropyl derivative II was treated with NaOH/MeOH to give ring expansion product III.

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Carbon-13 magnetic resonance studies. 120. The Simmons-Smith reaction with some silyl enol ethers. Unusual ring expansions of some norcamphors  
 AN 1986:69020 CAPLUS  
 DN 104:69020  
 TI Carbon-13 magnetic resonance studies. 120. The Simmons-Smith reaction with some silyl enol ethers. Unusual ring expansions of some norcamphors  
 AU Ragauskas, Arthur J.; Stothers, J. B.  
 CS Dep. Chem., Univ. West. Ontario, London, ON, N6A 5B7, Can.  
 SO Canadian Journal of Chemistry (1985), 63(11), 2969-74  
 CODEN: CJCHAG; ISSN: 0008-4042  
 DT Journal  
 LA English  
 OS CASREACT 104:69020  
 GI

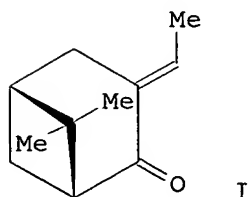


AB Simmons-Smith cyclopropanation of silyl enol ethers, e.g. I, II (R = Me<sub>3</sub>Si, Me<sub>3</sub>CSiMe<sub>2</sub>), of polycyclic ketones was studied. Product compns. depended on concns. of reactants, and tert-butyldimethylsilyl derivs. gave ring-expanded allylic ethers more efficiently than did the corresponding trimethylsilyl derivs.

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Nootkatone and vetivone compounds  
 AN 1980:639700 CAPLUS  
 DN 93:239700  
 TI Nootkatone and vetivone compounds  
 IN Yanami, Tetsuji; Miyashita, Masaaki; Yoshikoshi, Akira; Akiyama, Takashi  
 PA Hasegawa, T., Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 42 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 55045649	A2	19800331	JP 1978-119142	19780929
	JP 62009097	B4	19870226		
				JP 1978-119142	A 19780929

GI



AB Eighteen nootakone and vetivone compds. were prepared and used as perfumes. Thus, 42 mL MeCHO in EtOH was added to a mixture of 69 g (+)-nopinone and 33 g KOH in EtOH over 1 h at 1-5°, the mixture stirred 74 h at 5°, 133 g 4-MeC6H4SO3H added, and the whole stirred (isomerization) 3 h at room temperature to give 67.2 g (+)-3-trans-ethylidenenopinone (I).

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	16.25	49.81
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.25	-2.25

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	ENTRY	SESSION
FULL ESTIMATED COST	16.25	49.81
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.25	-2.25

=> dissolving metal

79098 DISSOLVING  
2 DISSOLVINGS  
79099 DISSOLVING  
(DISSOLVING OR DISSOLVINGS)  
1652256 METAL  
835648 METALS  
2004917 METAL  
(METAL OR METALS)  
L9 609 DISSOLVING METAL  
(DISSOLVING(W)METAL)

=> aluminum hydride

926666 ALUMINUM  
297 ALUMINUMS  
926727 ALUMINUM  
(ALUMINUM OR ALUMINUMS)  
100989 HYDRIDE  
24196 HYDRIDES

108855 HYDRIDE  
 (HYDRIDE OR HYDRIDES)  
 L10 8892 ALUMINUM HYDRIDE  
 (ALUMINUM(W)HYDRIDE)

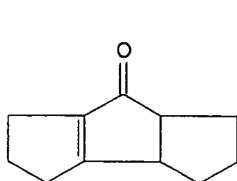
=> oxime  
 43647 OXIME  
 15549 OXIMES  
 L11 48361 OXIME  
 (OXIME OR OXIMES)

=> 19 and 110  
 L12 1 L9 AND L10

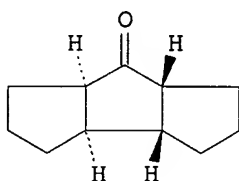
=> 111 and 112  
 L13 0 L11 AND L12

=> d 112 ti fbib abs

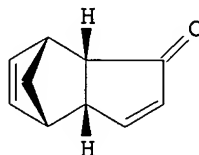
L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Synthesis of a new ketone and alcohol with C2 symmetry;  
 (S,S,S,S)-tricyclo[6.3.0.03,7]undecan-2-one and (S,S,S,S)-  
 tricyclo[6.3.0.03,7]undecan-2-ol  
 AN 1992:83264 CAPLUS  
 DN 116:83264  
 TI Synthesis of a new ketone and alcohol with C2 symmetry;  
 (S,S,S,S)-tricyclo[6.3.0.03,7]undecan-2-one and (S,S,S,S)-  
 tricyclo[6.3.0.03,7]undecan-2-ol  
 AU McIntosh, John M.; Cassidy, Kenneth C.  
 CS Dep. Chem., Univ. Windsor, Windsor, ON, N9B 3P4, Can.  
 SO Tetrahedron: Asymmetry (1991), 2(10), 1053-62  
 CODEN: TASYE3; ISSN: 0957-4166  
 DT Journal  
 LA English  
 GI



5



3



13

AB **Dissolving metal** reduction of known tricyclic enone 5 affords predominantly the racemic form of title ketone 3 whereas catalytic reduction gives the meso isomer. Neither ketone 3 nor alc. 4 could be satisfactorily resolved. Asym. synthesis of (-)-3 and (+)-4 (ee=91%) was effected from ketone (+)-13.

=> 19(1)111  
 L14 4 L9(L)L11

=> 110(1)111  
 L15 82 L10(L)L11

=> d 115 72-82 ti



L15 ANSWER 72 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Pyran, its analogs, and related compounds. XIII. Further study of the anomalous reduction of ketone **oximes** by lithium **aluminum hydride**

L15 ANSWER 73 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Syntheses of benzo[b]- and benzo[j]phenanthridines

L15 ANSWER 74 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Pyran series; its analogs and related compounds. VII. Peculiarities of reduction of 4-chromanone **oxime** and **oximes** of related ketones with lithium **aluminum hydride**

L15 ANSWER 75 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Lithium **aluminum hydride**-aluminum chloride reduction of **oximes**

L15 ANSWER 76 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Formation of homopiperazine rings by the lithium **aluminum hydride** catalyzed rearrangement of some piperidone **oximes** in the phenothiazine series

L15 ANSWER 77 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Molecular rearrangements. VI. The rearrangement of **oximes** on reduction with lithium **aluminum hydride**

L15 ANSWER 78 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Derivatives of **oximes**. II. Reduction of O- and N-alkyl **oximes** with lithium **aluminum hydride**

L15 ANSWER 79 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Derivatives of **oximes**. II. Reduction of O- and N-alkyl **oximes** with lithium **aluminum hydride**

L15 ANSWER 80 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Preparation of primary amines by reduction of **oximes** with lithium **aluminum hydrides** and by the Leuckart reaction

L15 ANSWER 81 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Reduction of **oximes** with lithium **aluminum hydride**

L15 ANSWER 82 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI The reduction of **oximes** with lithium **aluminum hydride**

=> d l15 75 ti fbib abs

L15 ANSWER 75 OF 82 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Lithium **aluminum hydride**-aluminum chloride reduction of **oximes**  
 AN 1963:435104 CAPLUS  
 DN 59:35104  
 OREF 59:6234b-d  
 TI Lithium **aluminum hydride**-aluminum chloride reduction of **oximes**  
 AU Rerick, Mark N.; Trottier, Claude H.; Daignault, Ronald A.; DeFoe, John D.  
 CS Providence Coll., Providence, RI  
 SO Tetrahedron Letters (1963) 629-34  
 CODEN: TELEAY; ISSN: 0040-4039  
 DT Journal

LA Unavailable  
 AB Reduction of acetophenone oximes  $\text{ArC}(\text{:NOH})\text{Me}$  (I) with  $\text{LiAlH}_4$  gave mixts, of 1-arylethylamines  $\text{ArCH}(\text{NH}_2)\text{Me}$  (II), and N-ethylanilines  $\text{ArNH}_2$  (III). A series of I and other ketone oximes was reduced with  $\text{LiAlH}_4$  and the tabulated results compared with those of reduction with a highly electrophilic mixed hydride containing 1:4  $\text{LiAlH}_4\text{AlCl}_2$ . Examination of the products by vapor phase chromatography and infrared spectroscopy showed that the ratio of III to II was increased by reduction with  $\text{LiAlH}_4\text{-AlCl}_3$  but that aliphatic and alicyclic ketoxime gave predominantly the primary amine. I gave predominantly the secondary amine but only those with unsubstituted rings or with rings substituted with electron donating groups gave almost exclusively III. The tabulated results called into question the validity of the interpretation of the formation of amines of type III by intervention of the Beckmann rearrangement of the oxime. The reduction of the alkylhydroxylamines (IV)  $\text{Ph}_2\text{CHNHOH}$  and  $\text{PhCH}_2\text{NHOH}$ , corresponding to the parent oximes,  $\text{Ph}_2\text{C:NOH}$  and  $\text{PhCH:NOH}$  was investigated to ascertain the possibility of IV as an intermediate. Although IV was not isolated the presence of such an intermediate was detected and its formation in the above reduction was postulated.

=> d his

(FILE 'HOME' ENTERED AT 09:26:18 ON 15 JUN 2006)

FILE 'CAPLUS' ENTERED AT 09:27:34 ON 15 JUN 2006

L1 8892 ALUMINUM HYDRIDE

FILE 'REGISTRY' ENTERED AT 09:33:38 ON 15 JUN 2006

E SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY) (1,1-D

L2 1 E4

L3 1 E5

L4 1 E6

E NOPINONE/CN

L5 1 E3

FILE 'CAPLUS' ENTERED AT 09:36:51 ON 15 JUN 2006

L6 9 L2 OR L3 OR L4

L7 261 L5

L8 3 L6 AND L7

L9 609 DISSOLVING METAL

L10 8892 ALUMINUM HYDRIDE

L11 48361 OXIME

L12 1 L9 AND L10

L13 0 L11 AND L12

L14 4 L9(L)L11

L15 82 L10(L)L11

=> 14 and 115

7 L4

L16 0 L4 AND L15

=> 17 and 115

L17 0 L7 AND L15

=> terpene

20247 TERPENE

30083 TERPENES

L18 37682 TERPENE

(TERPENE OR TERPENES)

=> 115 and 118

L19 0 L15 AND L18

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE

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FULL ESTIMATED COST

42.58

76.14

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SINCE FILE

TOTAL

ENTRY

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TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

42.58

76.14

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-3.75

-3.75

=> d his

(FILE 'HOME' ENTERED AT 09:26:18 ON 15 JUN 2006)

FILE 'CAPLUS' ENTERED AT 09:27:34 ON 15 JUN 2006

L1 8892 ALUMINUM HYDRIDE

FILE 'REGISTRY' ENTERED AT 09:33:38 ON 15 JUN 2006

L2 1 E4

L3 1 E5

L4 1 E6

L5 1 E3

E NOPINONE/CN

FILE 'CAPLUS' ENTERED AT 09:36:51 ON 15 JUN 2006

L6 9 L2 OR L3 OR L4

L7 261 L5

L8 3 L6 AND L7

L9 609 DISSOLVING METAL

L10 8892 ALUMINUM HYDRIDE

L11 48361 OXIME

L12 1 L9 AND L10

L13 0 L11 AND L12

L14 4 L9(L)L11

L15 82 L10(L)L11

L16 0 L4 AND L15

L17 0 L7 AND L15  
L18 37682 TERPENE  
L19 0 L15 AND L18

=> aluminum chloride  
926666 ALUMINUM  
297 ALUMINUMS  
926727 ALUMINUM  
(ALUMINUM OR ALUMINUMS)  
1079502 CHLORIDE  
157380 CHLORIDES  
1151596 CHLORIDE  
(CHLORIDE OR CHLORIDES)  
L20 28249 ALUMINUM CHLORIDE  
(ALUMINUM(W) CHLORIDE)

=> 115 and 120  
L21 2 L15 AND L20

=> d 121 1-2 ti

L21 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Synthesis of primary allenic amines

L21 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Lithium **aluminum hydride-aluminum**  
**chloride** reduction of **oximes**

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	48.52	82.08

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.75	-3.75

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PASSWORD:

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FILE 'CAPLUS' ENTERED AT 10:31:20 ON 15 JUN 2006  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	48.52	82.08

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.75	-3.75

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

48.52

82.08

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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-3.75

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\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
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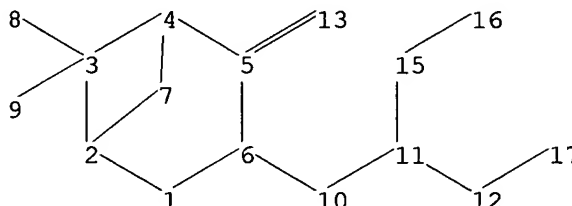
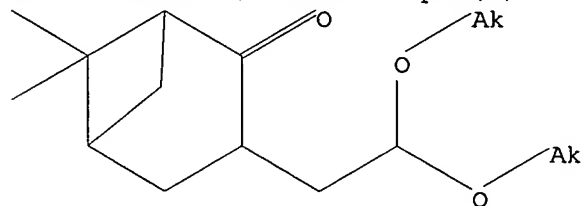
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chain nodes :

8 9 10 11 12 13 15 16 17

ring nodes :

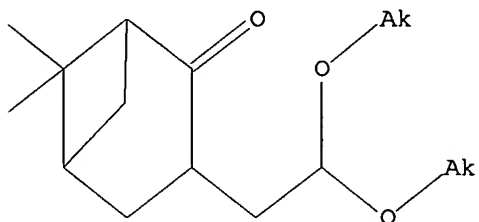
1 2 3 4 5 6 7

chain bonds :  
 3-8 3-9 5-13 6-10 10-11 11-12 11-15 12-17 15-16  
 ring bonds :  
 1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6  
 exact/norm bonds :  
 1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6 5-13 11-12 11-15 12-17 15-16  
 exact bonds :  
 3-8 3-9 6-10 10-11

Hydrogen count :  
 1:>= minimum 2 5:>= minimum 1 6:>= minimum 1 10:>= minimum 2 11:>= minimum 1  
 Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS  
 11:CLASS 12:CLASS 13:CLASS 15:CLASS 16:CLASS 17:CLASS

L22 STRUCTURE UPLOADED

=> d l22  
 L22 HAS NO ANSWERS  
 L22 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l22 sss sam  
 SAMPLE SEARCH INITIATED 10:31:57 FILE 'REGISTRY'  
 SAMPLE SCREEN SEARCH COMPLETED - 100 TO ITERATE

100.0% PROCESSED 100 ITERATIONS 0 ANSWERS  
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS: 1401 TO 2599  
 PROJECTED ANSWERS: 0 TO 0

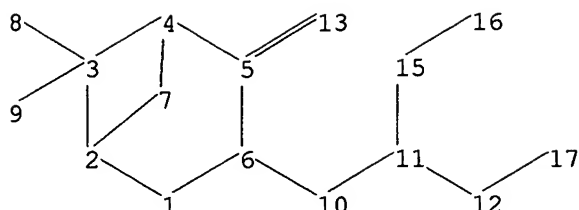
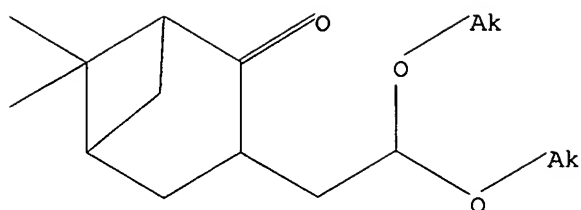
L23 0 SEA SSS SAM L22

=> search l22 sss full  
 FULL SEARCH INITIATED 10:32:05 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 2160 TO ITERATE

100.0% PROCESSED 2160 ITERATIONS 0 ANSWERS  
 SEARCH TIME: 00.00.01

L24 0 SEA SSS FUL L22

=>  
 Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary  
 files\10784930\10784930 corrected cmpd (X).str



chain nodes :

8 9 10 11 12 13 15 16 17

ring nodes :

1 2 3 4 5 6 7

chain bonds :

3-8 3-9 5-13 6-10 10-11 11-12 11-15 12-17 15-16

ring bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 4-5 4-7 5-6 5-13 11-12 11-15 12-17 15-16

exact bonds :

3-8 3-9 6-10 10-11

Hydrogen count :

1:>= minimum 2 6:>= minimum 1 10:>= minimum 2 11:>= minimum 1

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS

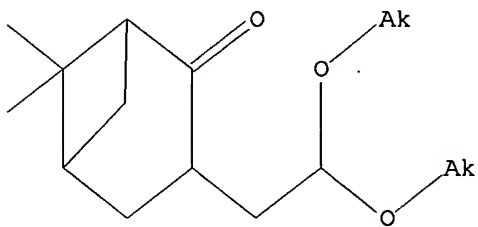
11:CLASS 12:CLASS 13:CLASS 15:CLASS 16:CLASS 17:CLASS

L25 STRUCTURE UPLOADED

=> d l25

L25 HAS NO ANSWERS

L25 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l25 sss sam

SAMPLE SEARCH INITIATED 10:36:36 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 100 TO ITERATE

100.0% PROCESSED 100 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1401 TO 2599

PROJECTED ANSWERS: 0 TO 0

L26 0 SEA SSS SAM L25

=> search 125 sss full

FULL SEARCH INITIATED 10:36:55 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2160 TO ITERATE

100.0% PROCESSED 2160 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L27 1 SEA SSS FUL L25

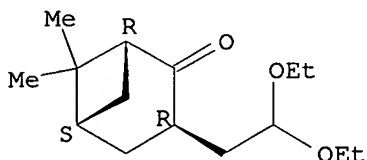
=> d scan

L27 1 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Bicyclo[3.1.1]heptan-2-one, 3-(2,2-diethoxyethyl)-6,6-dimethyl-,  
(1R,3R,5S)- (9CI)

MF C15 H26 O3

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> d 127

L27 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 318981-18-9 REGISTRY

ED Entered STN: 01 Feb 2001

CN Bicyclo[3.1.1]heptan-2-one, 3-(2,2-diethoxyethyl)-6,6-dimethyl-,  
(1R,3R,5S)- (9CI) (CA INDEX NAME)

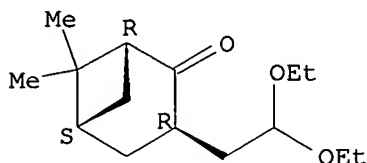
FS STEREOSEARCH

MF C15 H26 O3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	339.30	421.38
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.75

FILE 'CAPLUS' ENTERED AT 10:37:12 ON 15 JUN 2006  
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FILE COVERS 1907 - 15 Jun 2006 VOL 144 ISS 25  
FILE LAST UPDATED: 14 Jun 2006 (20060614/ED)

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<http://www.cas.org/infopolicy.html>

=> 127

L28 1 L27

=> d 128 ti fbib abns.

'ABNS' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB  
ALL ----- BIB, AB, IND, RE  
APPS ----- AI, PRAI  
BIB ----- AN, plus Bibliographic Data and PI table (default)  
CAN ----- List of CA abstract numbers without answer numbers  
CBIB ----- AN, plus Compressed Bibliographic Data  
CLASS ----- IPC, NCL, ECLA, FTERM  
DALL ----- ALL, delimited (end of each field identified)  
DMAX ----- MAX, delimited for post-processing  
FAM ----- AN, PI and PRAI in table, plus Patent Family data  
FBIB ----- AN, BIB, plus Patent FAM  
IND ----- Indexing data  
IPC ----- International Patent Classifications  
MAX ----- ALL, plus Patent FAM, RE  
PATS ----- PI, SO  
SAM ----- CC, SX, TI, ST, IT  
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
SCAN must be entered on the same line as the DISPLAY,

e.g., D SCAN or DISPLAY SCAN)

STD ----- BIB, CLASS

IABS ----- ABS, indented with text labels

IALL ----- ALL, indented with text labels

IBIB ----- BIB, indented with text labels

IMAX ----- MAX, indented with text labels

ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations

SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms

HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT) containing hit terms

HITRN ----- HIT RN and its text modification

HITSTR ----- HIT RN, its text modification, its CA index name, and its structure diagram

HITSEQ ----- HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields

FHITSTR ----- First HIT RN, its text modification, its CA index name, and its structure diagram

FHITSEQ ----- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields

KWIC ----- Hit term plus 20 words on either side

OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

ENTER DISPLAY FORMAT (BIB):end

=> d 128 ti fbib abs

L28 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for producing bicyclic amino alcohol from (+)-nopinone

AN 2001:31442 CAPLUS

DN 134:101033

TI Process for producing bicyclic amino alcohol from (+)-nopinone

IN Honma, Tsunetoshi; Hiramatsu, Yoshiharu; Mitsumori, Susumu

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

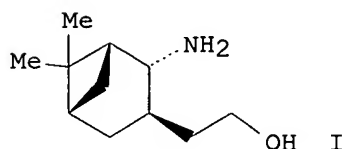
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001002334	A1	20010111	WO 2000-JP4171	20000626

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,

SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,  
 ZA, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 EP 1193243 A1 20020403 EP 2000-939160 20000626  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO  
 JP 1999-188674 A 19990702  
 WO 2000-JP4171 W 20000626  
 JP 3730170 B2 20051221 JP 2001-507777 20000626  
 JP 1999-188674 A 19990702  
 WO 2000-JP4171 W 20000626  
 US 6723857 B1 20040420 US 2002-19670 20020102  
 JP 1999-188674 A 19990702  
 WO 2000-JP4171 W 20000626  
 US 2004171882 A1 20040902 US 2004-784930 20040225  
 JP 1999-188674 A 19990702  
 WO 2000-JP4171 W 20000626  
 US 2002-19670 A3 20020102

OS CASREACT 134:101033; MARPAT 134:101033  
 GI



AB The bicyclic amino alc. I is prepared by reaction of (+)-nopinone with  
 XCH<sub>2</sub>CO<sub>2</sub>R<sub>1</sub> (X = halo; R<sub>1</sub> = alkyl) in the presence of an additive and a  
 base, followed by conversion of the product into an oxime, and reduction of  
 the oxime. I is then converted in several steps to a known PGD2  
 antagonist.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
3.20	424.58

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.75	-4.50

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 10:37:53 ON 15 JUN 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 10:59:33 ON 15 JUN 2006  
FILE 'CAPLUS' ENTERED AT 10:59:33 ON 15 JUN 2006  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.20	424.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-4.50

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.20	424.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-4.50

FILE 'CAPLUS' ENTERED AT 10:59:48 ON 15 JUN 2006  
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FILE COVERS 1907 - 15 Jun 2006 VOL 144 ISS 25  
FILE LAST UPDATED: 14 Jun 2006 (20060614/ED)

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=> dmpu

L29 285 DMPU

=> alkylation

96014 ALKYLATION  
2535 ALKYLATIONS  
L30 96558 ALKYLATION  
(ALKYLATION OR ALKYLATIONS)

=> l29(l)l30

L31 31 L29(L)L30

=> d l31 12-31 ti

L31 ANSWER 12 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN

TI Enantioselective construction of vicinal stereogenic quaternary centers by

dialkylation: practical total syntheses of (+)- and meso-chimonanthine

- L31 ANSWER 13 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Acylation and alkylation of 2- and 4-methylbenzonitrile
- L31 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Effect of Addends on Aggregation and Reactivity of the Lithium Enolate of p-Phenylisobutyrophenone
- L31 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI C-Alkylation of peptides containing aminomalonate and (amino)(cyano)acetate residues
- L31 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Process for alkylation and Smiles rearrangement of hydroxy aromatics
- L31 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Regio- and diastereoselective dialkylation of (4S)-2,4-dimethyl-2,4-dihydro-1H-pyrazino[2,1-b]quinazoline-3,6-dione
- L31 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Selective monoalkylation of diethyl malonate, ethyl cyanoacetate, and malononitrile using a masking group for the second acidic hydrogen
- L31 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Synthesis of cycloalkadiynes of various ring size
- L31 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Synthesis and structure of functionalized cyclododecadiynes and -dienes
- L31 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Preparation of cyclic sulfamides used for the synthesis of HIV protease inhibitors via cyclization of protected linear diamino diols with SO<sub>2</sub> precursors followed by alkylation
- L31 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI A new synthesis of (±)-phoracantholide, (±)-dihydrorecifeiolide, and (±)-muscone via α-nitro ketones
- L31 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The synthesis of deuterated 4-2H-α-farnesene and 1-2H-α-farnesene
- L31 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Enantioselective synthesis of 2-alkyl substituted cysteines
- L31 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI C-alkylation of sarcosine residues in cyclic tetrapeptides via lithium enolates
- L31 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI C-Alkylation of peptides through polyolithiated and lithium chloride solvated derivatives containing sarcosine lithium enolate units
- L31 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Replacement of carcinogenic solvent HMPA by DMI in insect sex pheromone synthesis
- L31 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
TI trans-Disubstituted cyclohexadienes via sequential addition of a carbon nucleophile and an electrophile to (η<sup>6</sup>-benzene)tricarbonylchromium: scope of carbon electrophiles

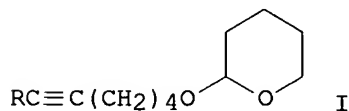
L31 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Mono- and dialkylation of derivatives of (1R,2S)-2-hydroxycyclopentanecarboxylic acid and -cyclohexanecarboxylic acid via bicyclic dioxanones: selective generation of three contiguous stereogenic centers on a cyclohexane ring

L31 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI 1,3-Dimethyl-2-oxohexahydropyrimidine (DMPU): an alternative to HMPT in moth sex pheromone synthesis

L31 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Stereoselective alkylation at C( $\alpha$ ) of serine, glyceric acid, threonine, and tartaric acid involving heterocyclic enolates with exocyclic double bonds

=> d l31 30 ti fbib abs

L31 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI 1,3-Dimethyl-2-oxohexahydropyrimidine (DMPU): an alternative to HMPT in moth sex pheromone synthesis  
 AN 1988:549114 CAPLUS  
 DN 109:149114  
 TI 1,3-Dimethyl-2-oxohexahydropyrimidine (DMPU): an alternative to HMPT in moth sex pheromone synthesis  
 AU Bengtsson, Marie; Liljefors, Tommy  
 CS Dep. Org. Chem., Univ. Lund, Lund, S-221 00, Swed.  
 SO Synthesis (1988), (3), 250-2  
 CODEN: SYNTBF; ISSN: 0039-7881  
 DT Journal  
 LA English  
 OS CASREACT 109:149114  
 GI



AB **DMPU** proved to be a good substitute for the carcinogenic HMPA as a cosolvent in the **alkylation** of lithioalkynes. Thus, treatment of alkyne **I** ( $\text{R} = \text{H}$ ) with BuLi in THF, followed by  $\text{Me}(\text{CH}_2)_n\text{I}$  ( $n = 0, 1$ ) in **DMPU** gave 91-93% **I** [ $\text{R} = (\text{CH}_2)_n\text{Me}$ ] which on treatment with AcCl-AcOH gave  $\text{Me}(\text{CH}_2)_n\text{C.tplbond.C}(\text{CH}_2)_{40}\text{Ac}$  quant.

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
18.30	442.88

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.75	-5.25

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 11:06:20 ON 15 JUN 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
d hilogoff hold\]\  
Connection closed by remote host  
<-----User Break----->

Connecting via Winsock to STN

SESSION RESUMED IN FILE 'CAPLUS' AT 11:33:09 ON 15 JUN 2006  
FILE 'CAPLUS' ENTERED AT 11:33:09 ON 15 JUN 2006  
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Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 11:35:34 ON 15 JUN 2006  
FILE 'CAPLUS' ENTERED AT 11:35:34 ON 15 JUN 2006  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	19.22	443.80
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-5.25

=> d his

(FILE 'HOME' ENTERED AT 09:26:18 ON 15 JUN 2006)

FILE 'CAPLUS' ENTERED AT 09:27:34 ON 15 JUN 2006  
L1 8892 ALUMINUM HYDRIDE

FILE 'REGISTRY' ENTERED AT 09:33:38 ON 15 JUN 2006  
E SILANE, ((6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-EN-2-YL)OXY) (1,1-D  
L2 1 E4  
L3 1 E5  
L4 1 E6  
E NOPINONE/CN  
L5 1 E3

FILE 'CAPLUS' ENTERED AT 09:36:51 ON 15 JUN 2006  
L6 9 L2 OR L3 OR L4  
L7 261 L5  
L8 3 L6 AND L7  
L9 609 DISSOLVING METAL  
L10 8892 ALUMINUM HYDRIDE  
L11 48361 OXIME  
L12 1 L9 AND L10  
L13 0 L11 AND L12  
L14 4 L9(L)L11

L15 8? L10(L)L11  
L16 0 L4 AND L15  
L17 0 L7 AND L15  
L18 37682 TERPENE  
L19 0 L15 AND L18  
L20 28249 ALUMINUM CHLORIDE  
L21 2 L15 AND L20

FILE 'REGISTRY' ENTERED AT 10:31:30 ON 15 JUN 2006

L22 STRUCTURE UPLOADED  
L23 0 SEARCH L22 SSS SAM  
L24 0 SEARCH L22 SSS FULL  
L25 STRUCTURE UPLOADED  
L26 0 SEARCH L25 SSS SAM  
L27 1 SEARCH L25 SSS FULL

FILE 'CAPLUS' ENTERED AT 10:37:12 ON 15 JUN 2006

L28 1 L27

FILE 'CAPLUS' ENTERED AT 10:59:48 ON 15 JUN 2006

L29 285 DMPU  
L30 96558 ALKYLATION  
L31 31 L29(L)L30

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	19.22	443.80

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-5.25

FILE 'REGISTRY' ENTERED AT 11:35:51 ON 15 JUN 2006  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 14 JUN 2006 HIGHEST RN 887828-19-5  
DICTIONARY FILE UPDATES: 14 JUN 2006 HIGHEST RN 887828-19-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.



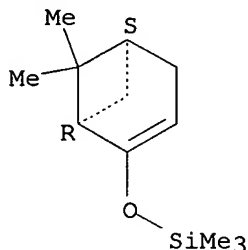
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 72453-33-9 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Silane, [(1R,5S)-6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl]oxy]trimethyl-  
(9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Silane, [(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)oxy]trimethyl-,  
(1R)-  
FS STEREOSEARCH  
MF C12 H22 O Si  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).



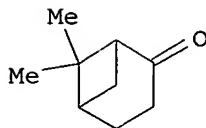
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

7 REFERENCES IN FILE CA (1907 TO DATE)  
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 15

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 24903-95-5 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Bicyclo[3.1.1]heptan-2-one, 6,6-dimethyl- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2-Norpinanone, 6,6-dimethyl- (6CI, 7CI, 8CI)  
OTHER NAMES:  
CN  $\beta$ -Pinone  
CN 6,6-Dimethylbicyclo[3.1.1]heptan-2-one  
CN **Nopinone**  
CN NSC 135004  
FS 3D CONCORD  
DR 473-60-9, 30469-48-8  
MF C9 H14 O  
CI COM  
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS,  
CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, IFICDB, IFIPAT, IFIUDB,  
NAPRALERT, SPECINFO, TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

257 REFERENCES IN FILE CA (1907 TO DATE)  
261 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e norcamphor/cn

E1	1	NORCAMPHIDIN/CN
E2	1	NORCAMPHIDINE/CN
E3	1	--> NORCAMPHOR/CN
E4	1	NORCAMPHOR DIETHYL KETAL/CN
E5	1	NORCAMPHOR DIMETHYL KETAL/CN
E6	1	NORCAMPHOR ETHYLENE KETAL/CN
E7	1	NORCAMPHOR HYDRAZONE/CN
E8	1	NORCAMPHOR, 1,1'-(DITHIODIMETHYLENE) BIS(3,3-DIMETHYL-/CN
E9	1	NORCAMPHOR, 1,3,3,5,5-PENTAMETHYL-, OXIME/CN
E10	1	NORCAMPHOR, 1,3,4,7,7-PENTAMETHYL-/CN
E11	1	NORCAMPHOR, 1,3-DIMETHYL-/CN
E12	1	NORCAMPHOR, 1,4,5,5-TETRAMETHYL-/CN

=> e3

L32 1 NORCAMPHOR/CN

=> d 132

L32 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 497-38-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN Bicyclo[2.2.1]heptan-2-one (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Norbornanone (6CI, 8CI)

OTHER NAMES:

CN (±)-2-Norbornanone

CN (±)-Norcamphor

CN 2,5-Methanocyclohexanone

CN 2-Oxonorbornane

CN dl-Norcamphor

CN **Norcamphor**

CN NSC 66537

CN NSC 92359

CN Racemic norcamphor

FS 3D CONCORD

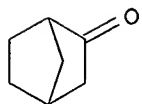
DR 22270-13-9

MF C7 H10 O

CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS,  
CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM\*, GMELIN\*,  
IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, RTECS\*, SPECINFO, TOXCENTER,  
USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1038 REFERENCES IN FILE CA (1907 TO DATE)  
23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1040 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
27 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
11.34	455.14

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-5.25

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 11:37:03 ON 15 JUN 2006